

CHES Access EIS Upgrade

ASX mFund Enhancements
CHES 10 Release

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Document History

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V1.0	01/06/2018	Satpal Dhillon	CHESS Release 10 requirements included. For a view of CHESS 10 Requirements, please go to: CHESS 10 Project Website

1 Acronym Glossary

Acronym	Definition
APG	ASX Settlement Procedure Guidelines
ASX Clear	ASX Clear Pty Ltd
ASX Settlement	ASX Settlement Pty Ltd
CHESS	Clearing House Electronic Sub-System
CRS	Common Reporting Standard
EIS	CHESS External Interface Specification
FATCA	Foreign Account Tax Compliance Act (US)
HIN	Holder Identification Number (CHESS)

2 Introduction

2.1 Overview

This document outlines the following:

- New or modified CHESS data messages
- Procedures to upgrade existing CHESS Access installations with the latest EIS release.

An EIS upgrade requires a new CHESS Access code as your existing version of CHESS Access will not function correctly for EIS94. The new CHESS Access version is CHESS Access40b.jar;

Please take a copy of your current **Jar** file, replace it with the **CHESS Access40b.jar** file, and then rename it as your original **Jar** file.

The upgrade procedure to be followed depends on the CHESS Access interface and connection configuration used and the version of EIS you are currently on.

The following interface types are supported:

- MQSeries interface
- JDBC interface
- Signals Protocol interface

2.2 Scope of Release

The scope of mFund enhancements to CHESS are:

	Enhancement
1	Restructuring of the Application request to focus this message on application details
2	Introduction of a HIN to HIN transfer function.
3	Introduction of a dedicated Foreign Tax compliance (CRS/FATCA) message to accompany 'Initial Application and Transfer requests, and to act as a stand-alone maintenance message.
4	Introduction of an Investor details message to accompany 'Initial' Application and Transfer requests, and to act as a stand-alone maintenance message.
5	Removal of a number of redundant fields from various messages.
6	Inclusion of an optional Unit Price on the Unit Adjustment message.
7	Inclusion of an additional field for Part C NA Annual Income Statements.

2.3 Accreditation

CHESS Access has completed certification for the following new and modified messages:

2.3.1 New CHES Messages

- MT735 Foreign Tax Status
- MT736 Foreign Tax Status Details
- MT737 Investor Details
- MT738 Participant Investor Details
- MT740 Cancelled Fund Request
- MT851 CHES to CHES Fund Transfer Request
- MT852 Fund Transfer Response
- MT853 CHES to CHES Fund Transfer Request Details
- MT854 CHES to CHES Fund Transfer Response

2.3.2 Modified CHES Messages

- MT718 Issuer Sponsored Fund to CHES Conversion Request
- MT719 Issuer Sponsored Fund to CHES Authorisation Request
- MT720 Accepted Participant Request (EIS *Pre-Requisites* modified)
- MT722 Fund Response (EIS *Pre-Requisites* modified)
- MT726 Application Request
- MT727 Application Order Request
- MT729 Application Order/Payment Plan Application Response
- MT730 Effected Application Order/Payment Plan Application Response
- MT732 Unit Adjustment
- MT733 Effected Fund Unit Adjustment
- MT800 Redemption Request
- MT801 Redemption Order Request
- MT802 Redemption Order Response
- MT803 Effected Redemption Order Request
- MT806 Switch Request
- MT807 Switch Order Request
- MT808 Switch Order Response
- MT809 Effected Switch Order Request
- MT845 Unit Reversal Notification
- MT846 Effected Unit Reversal Notification
- MT957 Registry Income Statement Part A
- MT962 Participant Income Statement Part A
- MT967 Registry Income Statement Part C NA

- MT972 Participant Income Statement Part C NA

2.4 Next Steps

The information in this document should be used to upgrade CHES Access instances in accordance with the CHES External Test and Production schedules. The exact dates for CHES External Test Environment and production go-live will be communicated closer to the time.

2.5 Contacting ASX – CHES Access

For any information regarding upgrade of CHES Access, ASX can be contacted on:

- **Satpal Dhillon** – Senior Analyst Programmer
 - T: 61 2 9227 0121
 - E: Satpal.Dhillon@asx.com.au
- **Elsa Dos Anjos** – Senior Technical Support Analyst
 - T: 61 2 9227 0936
 - E: Elsa.Dosanjos@asx.com.au
- **Joe Bialkowski** - CSD Settlement Development
 - T: 61 2 9227 0384
 - E: Joe.Bialkowski@asx.com.au

3 EIS Upgrade

Full details of new and modified CHESS messages can be found in the following document:

Business and Technical Overview, mFund Settlement Service Enhancements

[CHESS 10 Project Website](#)

3.1 CHESS Access – EIS Upgrade Kit

The EIS upgrade kit will contain the following files:

- EIS94.BAT
- EIS94.TXT
- EIS94.SQL
- CHESSAccess41b.jar
- ChessAccessEIS94Upgrade.doc
- CHESSMESSAGES_Table.sql
- CHESSMESSAGES_Numeric_Table.sql

See Appendix B for a detailed description of these files.

The upgrade kit consists of folders for each database type currently supported and tested for use with CHESS Access. These are:

- DB2
- Oracle8i/9i
- MySQL
- MSSQL
- Sybase

Each database folder contains a customised copy of the EIS94.BAT and EIS94.TXT files.

Important Note: Please ensure that you use the version that applies to your database.

3.2 CHESS Access – EIS Upgrade Pre-requisite

The following questions and answers will guide you through the pre-upgrade procedure and determine if you need to upgrade:

- Q.** What type of connection and interface are you using?
- A.** CHESS Access supports two interface types, MQSeries or JDBC Database. To determine the type of interface you are using, do the following:
Edit the CHESS Access configuration file **gateway.xml** located in the CHESS Access installation folder. You should see one of the following connection tags:
<chess_to_mq_connection>
<chess_to_jdbc_connection>

<*signals_to_mq_connection*>
<*signals_to_jdbc_connection*>

If you find *mq_connection*, you are using MQSeries as the interface connection and **You DO NOT require an upgrade. However, you will need to make changes to your internal interface application that receives CHESS messages via MQSeries to accept the new and changed messages as described in Appendix A.**

If you find *jdbc_connection*, you are using JDBC as the interface connection.

Q. What is the database table type used?

A. Edit the CHESS Access configuration file *gateway.xml* located in the CHESS Access installation folder. Check the contents of the <*table_type*> tag.

If this tag is set to "FIELD", then you are using field based message storage and retrieval. **For this type of set-up you will have to follow the CHESSFIELD upgrade procedure as described in 3.3.1.**

If this tag is set to "MESSAGE", then you are using message based storage and retrieval. **For this type of JDBC connection, you will have to change your internal interface application to accept the changed and new messages as described in 3.3.2.**

3.3 CHESS Access – EIS Upgrade

3.3.1 CHESSFIELD Upgrade

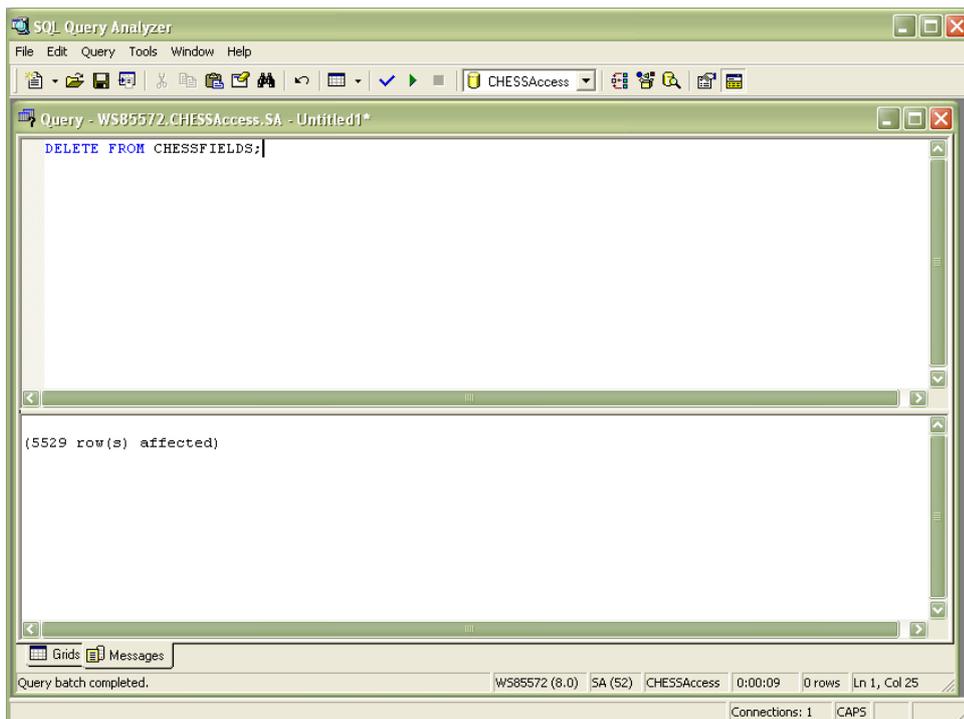
It is important before proceeding with this upgrade, that you take a full backup of the database.

3.3.1.1 Delete Existing Data

The following action should be done by your database administrator or someone familiar with SQL. Use the following SQL command to delete all rows from the CHESSFIELDS table:

- DELETE FROM CHESSFIELDS
- or
- DELETE * FROM CHESSFIELDS

The following screen shot is an example of MSSQL:

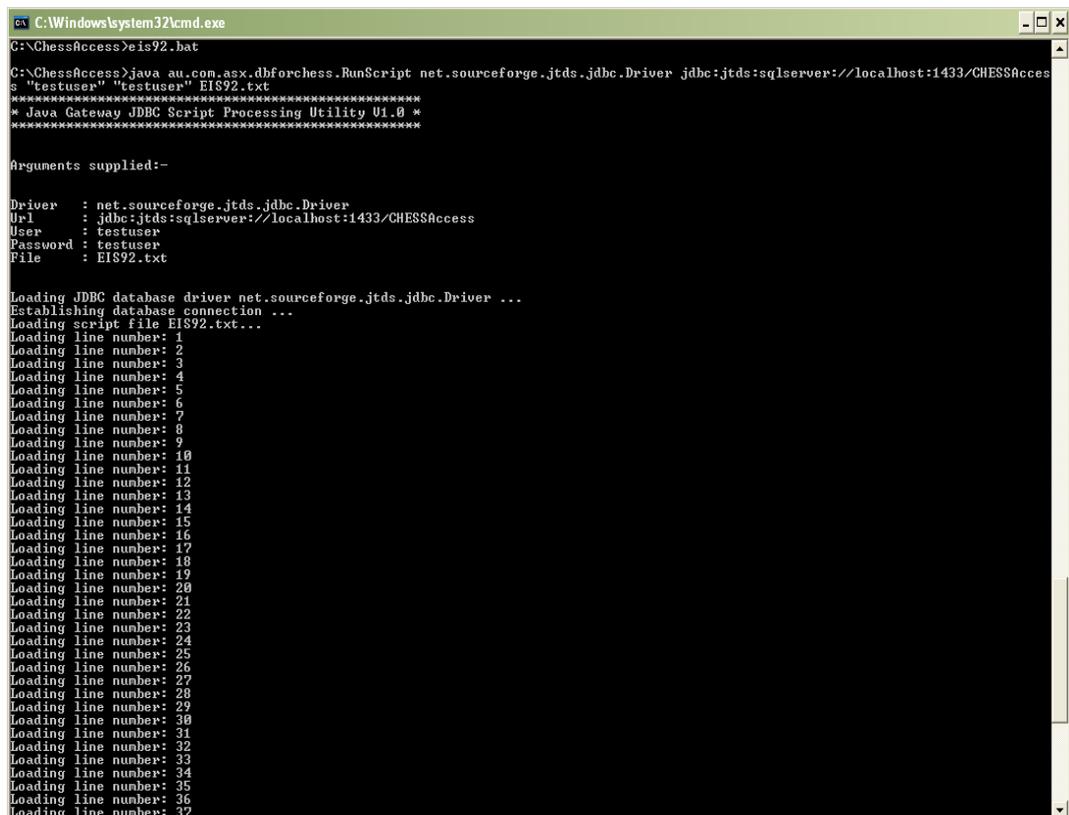


3.3.1.2 Load new data

There are two ways to populate the CHESSFIELDS table:

1. By directly running the EIS94.SQL script
2. By running the EIS94.BAT file as follows:
 - Retrieve the upgrade files EIS94.TXT and EIS94.BAT from the upgrade kit folder associated with the database you are using (DB2, Oracle, MYSQL, MSSQL, Sybase).
 - Copy the EIS94.TXT and EIS94.BAT to the CHESS Access installation folder.
 - Edit the file EIS94.BAT and change the Java class path, device driver used, database path, username and password used in the command to suit your environment (see Appendix B).
 - From a DOS command window, use the CD command to navigate to the CHESS Access installation folder. Then execute the batch file by typing in EIS94.BAT at the DOS prompt. This will execute the RunScript java class and update the CHESSFIELDS table.

The following screen shots show the output when the batch file is executed for an MSSQL database:



```
C:\Windows\system32\cmd.exe
C:\ChessAccess>eis92.bat
C:\ChessAccess>java au.com.asx.dbforchess.RunScript net.sourceforge.jtds.jdbc.Driver jdbc:jtds:sqlserver://localhost:1433/CHESSAccess
s "testuser" "testuser" EIS92.txt
*****
* Java Gateway JDBC Script Processing Utility V1.0 *
*****
Arguments supplied:-
Driver      : net.sourceforge.jtds.jdbc.Driver
Url         : jdbc:jtds:sqlserver://localhost:1433/CHESSAccess
User        : testuser
Password    : testuser
File        : EIS92.txt

Loading JDBC database driver net.sourceforge.jtds.jdbc.Driver ...
Establishing database connection ...
Loading script file EIS92.txt...
Loading line number: 1
Loading line number: 2
Loading line number: 3
Loading line number: 4
Loading line number: 5
Loading line number: 6
Loading line number: 7
Loading line number: 8
Loading line number: 9
Loading line number: 10
Loading line number: 11
Loading line number: 12
Loading line number: 13
Loading line number: 14
Loading line number: 15
Loading line number: 16
Loading line number: 17
Loading line number: 18
Loading line number: 19
Loading line number: 20
Loading line number: 21
Loading line number: 22
Loading line number: 23
Loading line number: 24
Loading line number: 25
Loading line number: 26
Loading line number: 27
Loading line number: 28
Loading line number: 29
Loading line number: 30
Loading line number: 31
Loading line number: 32
Loading line number: 33
Loading line number: 34
Loading line number: 35
Loading line number: 36
Loading line number: 37
```

```
C:\Windows\system32\cmd.exe
> .\01_052.'Unit Quantity Accepted'.011.'M.'.M');INSERT INTO CHESSFIELDS VALUES <741.01.056.'Distinct Portion Indicator'.001.'C.'.O');
> INSERT INTO CHESSFIELDS VALUES <752.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <752.01.048.'Transaction
Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <752.01.062.'Origin Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <7
54.01.002.'Security Code'.012.'C.'.M');INSERT INTO CHESSFIELDS VALUES <754.01.016.'HIN'.010.'M.'.M');INSERT INTO CHESSFIELDS VALUES
<754.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <754.01.038.'Basis of Movement 1'.002.'C.'.O');INSERT
INTO CHESSFIELDS VALUES <754.01.039.'Basis of Movement 2'.002.'C.'.O');INSERT INTO CHESSFIELDS VALUES <754.01.040.'Basis of Movement
3'.002.'C.'.O');INSERT INTO CHESSFIELDS VALUES <754.01.041.'Basis of Movement 4'.002.'C.'.O');INSERT INTO CHESSFIELDS VALUES <754.
01.042.'Basis of Movement 5'.002.'C.'.O');INSERT INTO CHESSFIELDS VALUES <754.01.043.'Increase or Decrease'.001.'C.'.M');INSERT INTO
CHESSFIELDS VALUES <754.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <754.01.052.'Unit Quantity'.011.'M.'.M');
INSERT INTO CHESSFIELDS VALUES <754.01.053.'New Holding Balance'.011.'M.'.M');INSERT INTO CHESSFIELDS VALUES <754.01.062.'Origin T
ransaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <754.01.176.'Guaranteed Foreign Indicator'.002.'C.'.O');INSERT INTO CHESS
FIELDS VALUES <754.01.188.'Movement Type'.001.'C.'.M');INSERT INTO CHESSFIELDS VALUES <756.01.003.'Settlement Amount'.015.'C.'.M');I
NSERT INTO CHESSFIELDS VALUES <756.01.012.'Settlement Date'.008.'M.'.M');INSERT INTO CHESSFIELDS VALUES <756.01.021.'Processing Time
stamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <756.01.024.'Cash Account Identifier'.006.'M.'.M');INSERT INTO CHESSFIELDS VALUES
<756.01.029.'Payment Facility Id'.006.'M.'.M');INSERT INTO CHESSFIELDS VALUES <756.01.044.'Pay Receive Indicator'.001.'C.'.M');INSE
RT INTO CHESSFIELDS VALUES <756.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <756.01.062.'Origin Transaction
Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <757.01.002.'Security Code'.012.'C.'.M');INSERT INTO CHESSFIELDS VALUES <757.01.016.'
HIN'.010.'M.'.M');INSERT INTO CHESSFIELDS VALUES <757.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <757.01.2
01.'BSB Number'.007.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.01.203.'Account Number'.009.'C.'.O');INSERT INTO CHESSFIELDS VALUES
<757.01.204.'Account Name'.032.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.01.205.'Account Purpose'.001.'C.'.O');INSERT INTO CHESS
FIELDS VALUES <757.01.206.'Account Cancellation'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.01.207.'Email Address'.129.'C.'.O');
INSERT INTO CHESSFIELDS VALUES <757.01.209.'Email Purpose'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.01.209.'Email Cancellat
ion'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.02.002.'Security Code'.012.'C.'.M');INSERT INTO CHESSFIELDS VALUES <757.02.01
6.'HIN'.010.'M.'.M');INSERT INTO CHESSFIELDS VALUES <757.02.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <757.02
201.'BSB Number'.007.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.02.203.'Account Number'.009.'C.'.O');INSERT INTO CHESSFIELDS VALU
ES <757.02.204.'Account Name'.032.'C.'.O');INSERT INTO CHESSFIELDS VALUES <757.02.205.'Account Purpose'.001.'C.'.O');INSERT INTO CHE
SSFIELDS VALUES <757.02.206.'Account Cancellation'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <758.01.021.'Processing Timestamp'.02
2.'C.'.M');INSERT INTO CHESSFIELDS VALUES <758.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <758.01.062.'Orig
in Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <759.01.019.'Target UIC'.005.'M.'.M');INSERT INTO CHESSFIELDS VALUES
<759.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <759.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO
CHESSFIELDS VALUES <759.01.049.'Target Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.002.'Security Code'.012.'
C.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.016.'HIN'.010.'M.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.019.'Target UIC'.005.'
M.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.048.'T
ransaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <760.01.062.'Origin Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELD
S VALUES <760.01.201.'BSB Number'.007.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.202.'FI Code'.003.'C.'.O');INSERT INTO CHESSFIELD
S VALUES <760.01.203.'Account Number'.009.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.204.'Account Name'.032.'C.'.O');INSERT IN
TO CHESSFIELDS VALUES <760.01.205.'Account Purpose'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.206.'Account Cancellation'.0
01.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.207.'Email Address'.129.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.208.'Email
Purpose'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.01.209.'Email Cancellation'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES
<760.02.002.'Security Code'.012.'C.'.M');INSERT INTO CHESSFIELDS VALUES <760.02.016.'HIN'.010.'M.'.M');INSERT INTO CHESSFIELDS VALU
ES <760.02.019.'Target UIC'.005.'M.'.M');INSERT INTO CHESSFIELDS VALUES <760.02.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO C
HESSFIELDS VALUES <760.02.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <760.02.062.'Origin Transaction Id'.016.'
C.'.M');INSERT INTO CHESSFIELDS VALUES <760.02.201.'BSB Number'.007.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.02.202.'FI Code'.00
3.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.02.203.'Account Number'.009.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.02.204.'Acco
unt Name'.032.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760.02.205.'Account Purpose'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <760
.02.206.'Account Cancellation'.001.'C.'.O');INSERT INTO CHESSFIELDS VALUES <761.01.019.'Target UIC'.005.'M.'.M');INSERT INTO CHESSI
FIELDS VALUES <761.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <761.01.048.'Transaction Id'.016.'C.'.M');
INSERT INTO CHESSFIELDS VALUES <761.01.049.'Target Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <761.01.210.'Rejecte
d Holding Advice Reason'.001.'C.'.M');INSERT INTO CHESSFIELDS VALUES <762.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHE
SSFIELDS VALUES <762.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <762.01.062.'Origin Transaction Id'.016.'C.'.
M');INSERT INTO CHESSFIELDS VALUES <764.01.021.'Processing Timestamp'.022.'C.'.M');INSERT INTO CHESSFIELDS VALUES <764.01.048.'Trea
nsaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <764.01.049.'Target Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VA
LUES <764.01.062.'Origin Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <766.01.021.'Processing Timestamp'.022.'C.'.M');
INSERT INTO CHESSFIELDS VALUES <766.01.048.'Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <766.01.049.'Target Transac
tion Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES <766.01.062.'Origin Transaction Id'.016.'C.'.M');INSERT INTO CHESSFIELDS VALUES
<766.01.210.'Rejected Holding Advice Reason'.001.'C.'.M');
> Processing command I ...
> Script completed successfully!
C:\CHESAccess>
```

3.3.2 CHESSMESSAGE Database Table Upgrade

It is important before proceeding with this upgrade, that you take a full backup of the database.

Note: This change should be made by someone familiar with the database you are using (either a database administrator or development person responsible for the database).

The CHESSMESSAGE table provides the structure of every Chess field in columns starting with FIELD_nnn where nnn is the field number.

3.3.2.1 Non Sybase Databases (MSSQL, Oracle, DB2)

This section is for the databases other than a Sybase database; for Sybase databases please refer to 3.3.2.2.

1. Update FIELD_250, FIELD_252, FIELD_253, FIELD_254, FIELD_255, FIELD_256, FIELD_258, FIELD_259, FIELD_260 -> VARCHAR(15)
2. Update FIELD_251 -> VARCHAR(13)
3. Update FIELD_261, FIELD_262 -> VARCHAR(8)
4. Update FIELD_263, FIELD_264 -> VARCHAR(5)
5. Update FIELD_257 -> CHAR(1)
6. Update FIELD_163 -> VARCHAR(2)
7. Update FIELD_218, FIELD_219 -> VARCHAR(30)
8. Update FIELD_228, FIELD_229 -> VARCHAR(6)
9. Update FIELD_227 -> VARCHAR(10)
10. Update FIELD_243 -> VARCHAR(50)
11. Update FIELD_063 -> VARCHAR(3)

A full list of the fields and their types can be found in the CHESSMESSAGES.SQL file.

A full list of CHESSMESSAGES can be found in the CHESSMESSAGES_Table.sql file.

The following screenshot is an example of changes applied to an MSSQL database. The columns that require changes are highlighted.

FIELD_063 (varchar(3), null)		
FIELD_163	varchar(2)	<input checked="" type="checkbox"/>
FIELD_218	varchar(30)	<input checked="" type="checkbox"/>
FIELD_219	varchar(30)	<input checked="" type="checkbox"/>
FIELD_227	varchar(10)	<input checked="" type="checkbox"/>
FIELD_228	varchar(6)	<input checked="" type="checkbox"/>
FIELD_229	varchar(6)	<input checked="" type="checkbox"/>

FIELD_243	varchar(50)	<input checked="" type="checkbox"/>
FIELD_250	varchar(15)	<input checked="" type="checkbox"/>
FIELD_251	varchar(13)	<input checked="" type="checkbox"/>
FIELD_252	varchar(15)	<input checked="" type="checkbox"/>
FIELD_253	varchar(15)	<input checked="" type="checkbox"/>
FIELD_254	varchar(15)	<input checked="" type="checkbox"/>
FIELD_255	varchar(15)	<input checked="" type="checkbox"/>
FIELD_256	varchar(15)	<input checked="" type="checkbox"/>
FIELD_257	char(1)	<input checked="" type="checkbox"/>
FIELD_258	varchar(15)	<input checked="" type="checkbox"/>
FIELD_259	varchar(15)	<input checked="" type="checkbox"/>
FIELD_260	varchar(15)	<input checked="" type="checkbox"/>
FIELD_261	varchar(8)	<input checked="" type="checkbox"/>
FIELD_262	varchar(8)	<input checked="" type="checkbox"/>
FIELD_263	varchar(5)	<input checked="" type="checkbox"/>
FIELD_264	varchar(5)	<input checked="" type="checkbox"/>

3.3.2.2 Sybase Database

This section is for a Sybase database; for databases other than a Sybase database please refer to 3.3.2.1.

1. Update FIELD_250, FIELD_252, FIELD_253, FIELD_254, FIELD_255, FIELD_256, FIELD_258, FIELD_259, FIELD_260 -> NUMERIC(15,2)
2. Update FIELD_251 -> NUMERIC(13,5)
3. Update FIELD_261, FIELD_262 -> VARCHAR(8)
4. Update FIELD_263, FIELD_264 -> VARCHAR(5)
5. Update FIELD_257 -> VARCHAR(1)
6. Update FIELD_163 -> VARCHAR(2)
7. Update FIELD_218, FIELD_219 -> VARCHAR(30)
8. Update FIELD_228, FIELD_229 -> NUMERIC(6,0)
9. Update FIELD_227 -> NUMERIC(10,0)
10. Update FIELD_243 -> VARCHAR(50)
11. Update FIELD_063 -> VARCHAR(3)

A full list of the fields and their types can be found in the CHESMESSAGES.SQL file.
 A full list of CHESMESSAGES can be found in the CHESMESSAGES_Numeric_Table.sql file.

The following screenshot is an example of changes applied to a SYBASE database. The columns that require changes are highlighted.

FIELD_063	varchar(3)	<input checked="" type="checkbox"/>
FIELD_163	varchar(2)	<input checked="" type="checkbox"/>
FIELD_218	varchar(30)	<input checked="" type="checkbox"/>
FIELD_219	varchar(30)	<input checked="" type="checkbox"/>
FIELD_227	numeric(10, 0)	<input checked="" type="checkbox"/>
FIELD_228	numeric(6, 0)	<input checked="" type="checkbox"/>
FIELD_229	numeric(6, 0)	<input checked="" type="checkbox"/>
FIELD_243	varchar(50)	<input checked="" type="checkbox"/>
FIELD_250	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_251	numeric(13, 5)	<input checked="" type="checkbox"/>
FIELD_252	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_253	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_254	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_255	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_256	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_257	char(1)	<input checked="" type="checkbox"/>
FIELD_258	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_259	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_260	numeric(15, 2)	<input checked="" type="checkbox"/>
FIELD_261	varchar(8)	<input checked="" type="checkbox"/>
FIELD_262	varchar(8)	<input checked="" type="checkbox"/>
FIELD_263	varchar(5)	<input checked="" type="checkbox"/>
FIELD_264	varchar(5)	<input checked="" type="checkbox"/>

3.3.2.3 Gateway.xml File Modifications (Sybase Database only)

The gateway.xml file is the configuration file for CHESAccess ; The setting information given with the Tag <numeric_field_list> is the list for the numeric fields and their precision. This setting will be changed with this new one as following:

```
<numeric_field_list>3D,4D,12I,13I,16I,17I,19I,20I,24I,29I,46I,52I,53I,54I,55I,57I,61I,64I,66I,67D,68D,73D,80I,82I,86I,94I,95I,98I,106I,108I,110I,123I,124I,136D,137D,138I,155D6,158I,164I,165D,166D,171I,181D,194I,196I,198I,199D4,211D4,212D4,213D4,214D4,215D4,220D6,221D6,223D,224D,225D6,227I,228I,229I,230D6,232D6,233D6,235D6,236I,237D,238D6,239I,241I,242I,244I,250D,251D5,252D,253D,254D,255D,256D,258D,259D,260D</numeric_field_list>
```

4 Appendices

4.1 Appendix A – Upgrade kit files

4.1.1 EIS94.BAT

This batch file executes the RunScript java class to update the database. The format of the command used is as follows:

- **Java RunScript [JDBC driver name] [Database URL] [username] [password] [Script filename]**

To obtain the values for these parameters, edit the CHESAccess configuration file **gateway.xml** and get the values within the tags shown in the table below. This file can be found in the CHESAccess installation folder:

Command line parameter	XML tag in <i>gateway.xml</i>
JDBC driver name	<driver>.....<\driver>
Database URL	<url>.....<\url>
Username	<username>.....<\username>
Password	<password>.....<\password>

The parameter **[Script filename]** is set to EIS92.TXT

The following is an example:

```

java au.com.asx.dbforchess.RunScript net.sourceforge.jtds.jdbc.Driver
jdbc:jtds:sqlserver://localhost:1433/CHESAccess "testuser" "testuser" EIS92.txt
java – Execute Java run time
au.com.asx.dbforchess.RunScript – Location and name of Java class
net.sourceforge.jtds.jdbc.Driver – Location and name of JDBC driver
jdbc:jtds:sqlserver://localhost:1433/CHESAccess – Location and name of database
"user1" – Username to be used to connect to the database
"pwd1" – Password to be used to connect to the database
EIS94.txt – Name of script file to execute. This contains the SQL commands required to update the database
    
```

Note: For this batch file to execute correctly, please ensure that all class path definitions have been entered correctly according to your CHESAccess, database driver and Java installation. Also ensure that the username and password is set according to your environment.

The following is the BAT file for MSSQL:

```

REM
REM Batch File : EIS93.BAT
REM Purpose : Executes Java Class RUNSCRIPT to load the CHESFIELDS database table.
REM Parameters : [JDBC driver name] = Database driver details
REM [Database URL] = Database location
REM [Username] = Username for connecting to database
REM [Password] = Password for connecting to database
    
```

```
REM      [Script filename] = EIS93.TXT - data file that contains SQL
REM      Parameter values can be obtained from GATEWAY.XML configuration file in
REM      the Chess ACCESS install folder
REM      Parameter values can be obtained from GATEWAY.XML configuration file in
REM      the Chess ACCESS install folder
REM
REM      Replace the parameters, enclosed in square brackets, in the following line to suit your environment
REM=====
REM      java RunScript [JDBC driver name] [Database URL] [username] [password] [Script filename]
REM
REM
REM
REM      The following line is an example
REM      java au.com.asx.dbforchess.RunScript net.sourceforge.jtds.jdbc.Driver jdbc:jtds:sqlserver://localhost:1433/CHESSAccess
REM      "testuser" "testuser" EIS92.txt
```

4.1.2 EIS94.TXT

An SQL script will be executed when EIS94.BAT is submitted.
The script will create a new row for every Field in all CHESS Messages.

4.1.3 CHESSMESSAGES_Table.SQL

This SQL script is for reference for field definitions for a non-Sybase database. This file can be used for reference for the database field definitions.

4.1.4 CHESSMESSAGES_Numeric_Table.SQL

This SQL script is for reference for field definitions for a Sybase database. This file can be used for reference for the database field definitions.

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