

THE ELECTRONIC STAFF RECORD PROJECT



NATIONAL HEALTH SERVICE

J-97800 ESR Generic Attendance Inbound Interface Specification

Author: Martin Smith / Nick Slonskyj
Owner: ESR Solution Design Team
Date: 16 May 2008
Document Ref: [J-97800](#)
Version: 3.0
Classification RESTRICTED - McKesson ESR Project Staff /
NHS ESR Project Staff

Approvals:

Date:

Davey Banks
ESR Development Manager

1 Document Control

1.1 Change Record

Date	Author	Version	Change Reference
31-08-2005	M Smith	0.1	No Previous Document
22-09-2005	M Smith / M Slonskyj	0.2	Following review.
07-11-2006	M Smith / M Slonskyj	1.0	First issue.
04-01-2007	M Slonskyj	1.1	Corrected some field lengths on Element record (5.2.3). and updated Reviewer list.
16-05-2008	Mark Kelly	1.2	CCN440, CR17207 Allow recurring mileage elements
10-01-2011	Nick Slonskyj	2.0	Issued for sign off
29/11/13	ESR PMO	3.0	As part of the Document Cleanse exercise performed in November 2013, this document was found to be incorrectly classified. It has therefore been changed to RESTRICTED - McKesson ESR Project Staff / NHS ESR Project Staff

1.2 Reviewers

Name	Email	Position
Steve Vincent		Solution Design Team
Nick Slonskyj		Solution Design Team
Arpit Rajani		Solution Design Team
Martin Smith		Solution Design Team
David Booth	dbooth@nhs.net	NHS Interfaces

1.3 Distribution

Note To Holders:

If you receive an electronic copy of this document and print it out, please write your name on the equivalent of the cover page, for document control purposes.

If you receive a hard copy of this document, please write your name on the front cover, for document control purposes.

1.4 Related Documents

#	Name	Author	Ref
1	Interface and Integration Strategy	Consortium Technical Team	J-0200
2	Generic Attendance Inbound Interface	Consortium Technical Team	J-11200
3	ESR File Transfer Process	Operations Team	

1.5 Glossary

Term	Description
ASCII	American Standard Codes for Information Interchange. An industry standard character set
CSV	Comma Separated Value, an industry standard file format
Element or Element Entry	Element Entries are processed during the payroll run and determine the person's pay, benefits and deductions. Also referred to simply as element.
ESR	Electronic Staff Record
FTP	File Transfer Protocol

Term	Description
T&A	Time and Attendance

Contents

1	Document Control	ii
1.1	<i>Change Record</i>	ii
1.2	<i>Reviewers</i>	ii
1.3	<i>Distribution</i>	ii
1.4	<i>Related Documents</i>	ii
1.5	<i>Glossary</i>	ii
2	Introduction	6
2.1	<i>Purpose</i>	6
2.2	<i>Scope</i>	6
2.3	<i>Solution Overview</i>	6
3	Physical Architecture	7
3.1	<i>Physical Environment</i>	7
3.2	<i>Communications Link</i>	7
3.3	<i>Security</i>	7
3.4	<i>File Transfer Process</i>	8
4	Application Interface Description	9
4.1	<i>Process Overview</i>	9
4.2	<i>Activation</i>	10
4.3	<i>Data File Creation</i>	10
4.4	<i>File Validation</i>	11
5	Physical Data Format	13
5.1	<i>General File Formatting Principles</i>	13
5.2	<i>T&A Element Files</i>	13
5.2.1	Naming Conventions	13
5.2.2	Header Record	14
5.2.3	Element Record	15
5.2.4	Footer Record	16
6	Non Functional Qualities	18
6.1	<i>Delivery Frequency</i>	18
6.2	<i>Volumes and Sizes</i>	18

6.3	<i>Timings and Scheduling</i>	18
6.4	<i>Exception Handling</i>	18
7	Assumptions, Issues, and Forecast Changes	19
7.1	<i>Assumptions</i>	19
7.2	<i>Forecast Changes</i>	19
7.3	<i>Open Issues</i>	19
7.4	<i>Closed Issues</i>	19
8	Appendix A – Examples	20
8.1	<i>Sample Elements</i>	20
8.2	<i>Sample File</i>	22

2 Introduction

2.1 Purpose

The purpose of this document is to define the [ESR Generic Attendance Inbound Interface](#) for the benefit of the NHS and any third party suppliers that may be required to transfer T&A information to ESR.

2.2 Scope

This document specifies the transfer of information from third-party T&A systems to ESR. The data layout section includes the acceptable data elements, their description, data type, formatting restrictions if any, and the maximum length. It discusses processing rules that may affect the interface processing.

The interface boundary will typically lie between the ESR hub and the NHS hub (see diagram below).

Some features of the physical architecture are briefly described; as are some non-functional qualities such as file naming conventions, the transfer frequency, approximate volumetric data, security, and error handling procedures.

This document does not discuss the interface design, communications protocols, or how the interface will be implemented.

2.3 Solution Overview

The [ESR Generic Attendance Inbound Interface](#) enables electronic file transfer of T&A information from third-party T&A systems to ESR.

Each physical file contains zero or more attendance records (Record Type 'ATT'). Each record will create an *Element Entry* (also referred to simply as an *element*) against a person's assignment in ESR. *Element Entries* are processed during the payroll run and determine the person's pay, benefits and deductions.

T&A information may consist of time based elements such as hours worked, overtime hours, enhanced hours, etc, or non-time based elements such as call out, shift change, recall, etc. While the primary focus of this interface is to load T&A elements, it will in fact load any non-recurring element provided the element definition is correct and the assignment meets the eligibility rules.

The Interface will normally reject any recurring elements included in the file. An exception has been made for mileage elements, which are coded in ESR as recurring elements, even though they are non-recurring payments. A recurring element will be processed if it meets the following rules which identify it as a mileage payment:

- The 'Expense' segment on the element DFF (attribute2) is set to 'Mileage'
- The element name contains ' NR ' indicating it is for a non-recurring payment.

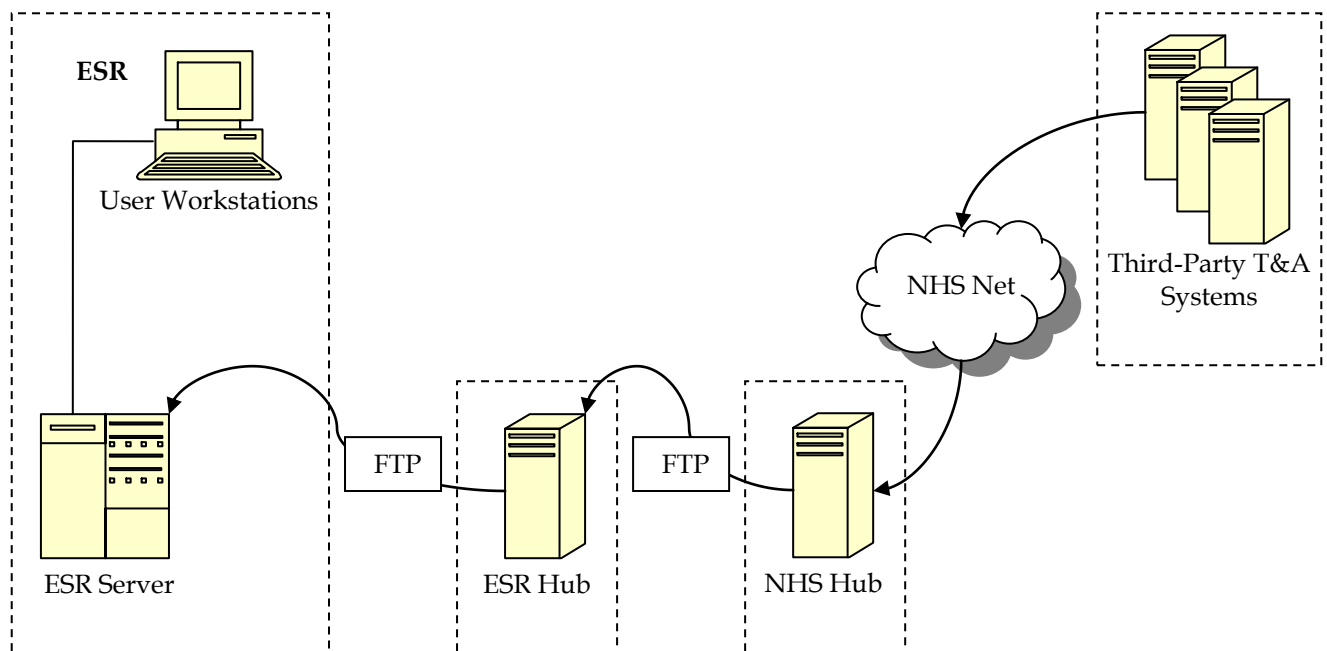
Due to the distinct differences in their nature and transfer frequency, absences are NOT transferred via this interface.

Upon a file arrival, ESR will notify the user via a Workflow message.

The physical exchange of data is via files in Comma Separated Value (CSV) format. T&A related information would typically be sent to ESR periodically, based on the payroll cycle. The actual frequency will depend on the type of payroll and could be on a weekly, fortnightly, lunar or monthly basis.

3 Physical Architecture

3.1 Physical Environment



The physical environment consists of several independent servers

- Typically third-party T&A systems deliver T&A Element files to the NHS Hub via the NHSnet.
- The NHS Hub handles file transfers on behalf of the NHS and also executes bespoke application software written and maintained by the NHS.
- The ESR Hub is a dedicated file transfer server provided by McKesson.
- The ESR Server hosts the ESR application suite and provides the core of the HR and payroll facilities.

3.2 Communications Link

The file transfer mechanism and the file formats used between the NHS Hub and the External T&A Systems are beyond the scope of this interface specification.

The ESR Hub will initiate all file transfers between itself and the NHS Hub. The ESR Server, the ESR Hub, and the NHS Hub are connected via the McKesson internal 100 Mb LAN using password authentications and standard FTP software.

3.3 Security

Files will NOT be encrypted across the NHS Hub to ESR Hub link. Encryption of files between the NHS Hub and External T&A Systems is beyond the scope of this interface specification.

3.4 File Transfer Process

ESR will use its standard method for file transfers ref [3].

4 Application Interface Description

4.1 Process Overview

T&A systems typically deliver files to the NHS Hub via the NHS Net. Additional processing may be carried out by the NHS Hub before the files are picked up by the ESR Hub but if this is necessary it will be subject to agreement between the NHS Hub management and the third-party supplier and so is outside the scope of this document.

T&A Element files must be segregated such that a file contains only assignments for a single trust. One file should be created per payroll per payroll period. ESR will not enforce this, but doing so will give the Trust users maximum flexibility when uploading the files into ESR.

Each attendance record in the file will generate a non-recurring element in ESR against the associated *ESR Assignment Number*. The *ESR Assignment Number* is defined within ESR when the assignment is first created and must be made available to the T&A system in some manner which is also outside the scope of this document to discuss. An element consists of an *Element Name* and zero or more *Input Values*. *Input Values* are attributes of the element used during payroll processing. *Input Values* are supplied in pairs, the *Input Value Name* followed by the actual *Entry Value*.

The ESR payroll processes employee payments according to the employee's contract type and payroll

- Employees with contracted hours (i.e. *Contracted Employees*)
 - *Contracted Employees* are identified by the existence of the 'Basic Contracted NHS' element entry for the assignment within ESR.
 - *Contracted Employees* with assignments associated to payrolls that require *Timesheet Verification* must have a timesheet before they are paid.
 - Additional basic hours, overtime hours, and enhancement hours plus any non-hours based elements (e.g. On Call, On Standby) should be supplied.
- Employees without contracted hours (i.e. *Timesheet Employees*)
 - *Timesheet Employees* are identified by the NON-existence of the 'Basic Contracted NHS' element entry for the assignment in ESR.
 - *Timesheet Employees* must have a timesheet before they are paid.
 - All hours should be supplied plus any non-hours based elements (e.g. On Call, On Standby).

Note: For assignments supplied in the file and designated as *Timesheet Employees* or *Contracted Employees with Timesheet Verification*, the element *Timesheet Checked NHS* is created automatically if it does not exist already. This enables the employee to be paid.

ESR provides basic mapping facilities to translate the *Element Name* and/or *Input Value Name* supplied in the file to their ESR equivalents. If a supplied *Element Name* or *Input Value Name* does not exist in the ESR database, then ESR will look in a designated "lookup" table for a translation. Translations for a particular T&A System must be enabled and therefore agreed in advance with McKesson, after which users may add and delete translation values as required.

Example Translations for an External T&A System with a Source System Code = 'ABC'

Lookup Type Name	Third-Party T&A System Code	ESR Element/Input Value Name
TA TRANSLATE ABC ELEMENTS	BASIC	Basic NR NHS
TA TRANSLATE ABC ELEMENTS	OVERTIME	Overtime NR NP NHS

Lookup Type Name	Third-Party T&A System Code	ESR Element/Input Value Name
TA TRANSLATE ABC INPUT VALUES	STANDARD OVERTIME	Plain Time Overtime
TA TRANSLATE ABC INPUT VALUES	WEEKEND OVERTIME	Saturday Overtime
TA TRANSLATE ABC INPUT VALUES	HOLIDAY OVERTIME	Bank Holiday Overtime

4.2 Activation

T&A element related information is sent to ESR periodically, typically based on the payroll cycle (weekly, monthly, etc).

4.3 Data File Creation

The following processing rules should be considered and followed when preparing a T&A Element file.

Elements & Assignments

- Normally only non-recurring elements may be created via this interface. Records referring to recurring elements will usually be rejected (see next rule for exceptions).
- The exceptions to the previous rule are the mileage elements, which although they are recurring, are used for single mileage payments. A recurring element can be created via this interface provided it meets the following criteria
 - The element definition has the 'Expense' segment on the element DFF set to 'Mileage'
 - The element name contains ' NR ', i.e. the name indicates that the element is used for non-recurring payments.
- If the element entry already exists for the period, a new entry will be created only if the element allows for multiple entries. Attempting to create a second element that does not allow multiple entries will cause the record to be rejected.
- The *Element Name* (or translated *Element Name*) must be valid and consistent with the eligibility rules for the assignment.
- The *Input Value Name(s)* (or translated *Input Value Name*) must be valid for and consistent with the element.
- ESR will automatically round numeric *Input Values* if they exceed the defined number of decimal places for the *Input Value* in ESR.
- The *ESR Assignment Number* must exist in the ESR database and be associated with the Trust indicated in the header record.

Effective Date

- The *Effective Date* of an element determines into which payroll period an element is loaded. The *Effective Date* is typically set to the last date of the payroll period.
- The *Effective Date* of an element is determined in the order listed below (The *Effective Dates* supplied against individual records are ignored).
 - i) If the user specifies an *Effective Date* as an input parameter to the ESR upload process, then the *Effective Date* parameter is used for the entire file.
 - ii) Otherwise the *Effective Date* of the element is defaulted by the ESR upload process and is set to the last day of the next unprocessed payroll period for the associated assignment.

- The *Effective Date* cannot be earlier than the ESR Go-Live Date for the Trust. If it is being defaulted and no payrolls have been processed, then the *Effective Date* will be defaulted to the first ESR payroll period after the Go-Live Date.

Earned Date

- *Earned Date* determines the rates used for this element during the payroll processing. Typically, the *Earned Date* is left blank. If the *Earned Date* is blank, then the *Effective Date* determines the rates used.

4.4 File Validation

The situations explained below result in the rejection of the entire T&A Element file and the error being recorded in the error log file.

- The file is a duplicate and thus has already been processed. A file is deemed a duplicate if a file header record with the same *File Name* and *Source System Code* has already been processed.
- There is not exactly one header record and one footer record in the file.
- The number of element records in the file does not equal the record count in the footer record.
- One or more of the fields exceed the maximum field length allowable.
- One or more of the fields is of the wrong data type. E.g. a non-numeric value is received where a numeric value is expected.
- Any record has a *Record Type* value that is unpopulated or invalid.

The situations explained below result in the rejection of a single record within a T&A Element file. Note that If one record for a particular assignment is rejected then all records for that assignment are rejected.

General

- A mandatory field value is not populated.

ESR Assignment Number

- The *Assignment Number* does not exist in the ESR.
- The *Assignment Number* is not associated with the Trust indicated in the header record.
- The assignment is not linked to a payroll.

Element

- The element record refers to a recurring element which is not a mileage element. Mileage elements are defined as elements where the following are true
 - The 'Expense' segment on the element DFF (attribute2) is set to 'Mileage'
 - The element name contains ' NR '
- Attempting to create an element, that does not allow multiple entries, where one of the same type already exists in the period.
- An *Element Name* (or translated name) is not a valid element in ESR.
- An *Input Value Name* (or translated name) is not a valid Input Value for the associated element.
- The assignment does not meet the eligibility rules for the element.

Effective Date

- j) The *Effective Date* is outside the valid dates of the assignment.
- k) The *Effective Date* cannot be earlier than the ESR Go-Live Date for the Trust. The *Effective Date* will be defaulted to the first ESR payroll period if it is earlier than the Go-Live Date.

Earned Date

- l) An *Earned Date* has been supplied for an element that does not have *Earned Date* as an input value.

As well as the error situations described above the process will also exit with a warning if it comes across an *Effective Date* which refers to a payroll period that has already been processed. When this occurs an error message will be reported to the log file and the offending record will remain unprocessed. Other valid records may still be processed.

5 Physical Data Format

5.1 General File Formatting Principles

The section describes general formatting requirements that should enable consistency in processing.

All files are in ASCII format. The ASCII line feed character (Hex '0D') will terminate all records. The header record should be the first record of a file; the footer record should be the last.

Null value fields are sent as either two commas side by side [, ,], or two commas separated by two double quotes [, "" ,], or nothing following the last comma separator in the case of the last field in a record. A field is optional unless specified as mandatory. A field must be enclosed in double quotes if it contains one or more double quotes ["] or one or more commas [,].

Where appropriate a numeric value may be preceded by an optional plus or minus sign.

All dates must be valid dates and are restricted to the fixed length format

YYYYMMDD

Where, YYYY represents the 4-digit year, MM represents the 2-digit month, and DD represents the 2-digit day. E.g. 20040714 (14th July 2004) or 20040409 (9th April 2004)

All timestamp values (date plus time) are sent in the fixed length format

YYYYMMDDHH24MISS

Where, YYYYMMDD are as specified in the date format above, HH24 represents the 2-digit hour of a 24-hour clock, MI represents the 2-digit minute, and SS represents the 2-digit second. No spaces separate the date portion of the timestamp from the time portion. E.g. 20040626221652 (10:16:52: PM on 26th June 2004)

In the record definition tables throughout this section, the following convention is applied for field lengths & data types: ?(n), where 'n' is the (maximum) number of bytes occupied by the field and '?' is the field type indicator. The usage is as follows,

- X(n) – variable length character field, of up to n characters
- F(n) – fixed length character field, containing n characters as specified
- N(n[,m]) – variable numeric field, of up to n digits, where n is the max number of digits and m is the optional number of digits after an optional decimal point
- L(n[,m]) –fixed length numeric field, padded with leading zeros, where n is the total of digits and m may be optionally specified as the number of digits after a decimal point

Mandatory data items are shown marked with a plus sign ('+') in the "Data Format" column of the tables below. Records that have missing or invalid mandatory values will be rejected.

Where a value is shown within single quotes (') it should be supplied exactly as indicated. E.g. the header record type is 'HDR'.

Additional, item specific validation rules are indicated as necessary in the "Comments" column.

5.2 T&A Element Files

5.2.1 Naming Conventions

Files will be named using conventions given below. Some of the constituent parts of the file name correspond to data items contained within the file header record.

Where:

TA	Constant 'TA' denoting 'T&A Element'
TTT	Trust Identifier. A user can only load files associated to their designated Trust
SYS	Source System Code, e.g. 'UPT' = Universal People Time, 'MTH' = Nurse Bank. This must be unique to the relevant third-party system and have been agreed with McKesson.
PRYNN	Period Identifier P = Period Type ('M' Monthly, 'W' Weekly, etc.) R = Run Type ('N' for Normal or 'S' for Supplementary) YY = Tax Year Ending, for 2001/2002 this will be 02 NN = Tax Period Number within the Year If the source system cannot supply the Run Type, Tax Year, and Tax Period Number, then these values will be set to 'N', '99', and '99' respectively.
99999999	Interface Run Sequence Number, incremented for each file
DAT	Constant 'DAT' extension denoting data file

For example, TA_060_UPT_MN0427_00006871.DAT

5.2.2 Header Record

The header record must be the first record of the file. There must be one and only one header record.

No	Data Item	Data Format	Comments
0	Record Type	F(3)+	A constant always set to 'HDR' = Header
1	File Name	X(40)+	The name of the file
2	Creation Date	F(14) +	Date/Time Stamp of file creation. Must be in the format: YYYYMMDDHH24MISS E.g.: 20021231184559 for 31-DEC-2002 18:45:59
3	Source System Code	X(3) +	Source System Code that uniquely identifies the source of the file. This must be agreed with McKesson. E.g.: 'UPT' = Universal People Time, 'MTH' = Nurse Bank
4	Trust Identifier	X(3) +	Trust Identifier of the payroll to which the element records relate. E.g.: '060'
5	Period Type	F(1)	Payroll Period Type: 'W' = Weekly, 'M' = Monthly, 'L' = Lunar Month, and 'F' = Bi-Week This field is for information only and is not validated by ESR.
6	Process Type	F(1)	The payroll process type. 'N' = Normal, 'S' = Supplementary This field is for information only and is not validated by ESR.
7	Tax Period	L(2)	Tax Period Number. 01 to 53 for Weekly, 01 to 26 for Bi-Week, 01 to 13 for Lunar Month, 01 to 12 for Monthly. If the source system cannot supply the Tax Period they should set it to '99'. This field is for information only and is not validated by ESR.

5.2.3 Element Record

A T&A Element file containing zero attendance (a.k.a. element) records (i.e. containing just a header and footer record) will be accepted as a valid file. There is no maximum size restriction for a T&A Element file.

No	Data Item	Data Format	Comments
0	Record Type	F(3)+	A constant always set to 'ATT' for Attendance records.
1	Effective Date	F(8)	This value will be ignored if supplied. See above for the mechanism by which Effective Date in ESR is determined.
2	Operation Type	X(3)+	A constant always set to 'ADD'.
3	Source System Employee Reference	X(60)	This value is not validated or stored in ESR
4	ESR Assignment Number	X(30)+	The ESR internal number that identifies an assignment. The assignment must be associated with the Trust Identifier as indicated in the header record and must be a valid ESR Assignment Number.
5	Earned Date	F(8)	This should be left blank if the earned date is the same as the effective date. If supplied Earned Date determines the rates used for this element during the payroll processing.
6	Element Name	X(80)+	The name of a valid <i>element</i> as defined in ESR or the appropriate look-up table. E.g. 'Overtime NR NP NHS'
7	Input Value Name 1	X(80)+	A name of a valid Input Value for the element named in the <i>Element Name</i> field as defined in ESR or the appropriate look-up table. E.g.: 'Plain Time Overtime', 'Weekday Overtime', etc
8	Entry Value 1	X(60)+	The actual value for the input value named in the <i>Input Value Name 1</i> field E.g.: 2.00
9	Input Value Name 2	X(80)	As above.
10	Entry Value 2	X(60)	As above.
11	Input Value Name 3	X(80)	As above.
12	Entry Value 3	X(60)	As above.
13	Input Value Name 4	X(80)	As above.
14	Entry Value 4	X(60)	As above.
15	Input Value Name 5	X(80)	As above.
16	Entry Value 5	X(60)	As above.
17	Input Value Name 6	X(80)	As above.
18	Entry Value 6	X(60)	As above.
19	Input Value Name 7	X(80)	As above.
20	Entry Value 7	X(60)	As above.
21	Input Value Name 8	X(80)	As above.

No	Data Item	Data Format	Comments
22	Entry Value 8	X(60)	As above.
23	Input Value Name 9	X(80)	As above.
24	Entry Value 9	X(60)	As above.
25	Input Value Name 10	X(80)	As above.
26	Entry Value 10	X(60)	As above.
27	Input Value Name 11	X(80)	As above.
28	Entry Value 11	X(60)	As above.
29	Input Value Name 12	X(80)	As above.
30	Entry Value 12	X(60)	As above.
31	Input Value Name 13	X(80)	As above.
32	Entry Value 13	X(60)	As above.
33	Input Value Name 14	X(80)	As above.
34	Entry Value 14	X(60)	As above.
35	Input Value Name 15	X(80)	As above.
36	Entry Value 15	X(60)	As above.
37	Account Code – Legal Entity	X(6)	If supplied this must be a valid ESR code.
38	Account Code – Charitable Indicator	X(1)	If supplied this must be a valid ESR code.
39	Account Code – Cost Centre	X(15)	If supplied this must be a valid ESR code.
40	Account Code – Subjective Code	X(15)	If supplied this must be a valid ESR code.
41	Account Code – Sub Analysis	X(15)	If supplied this must be a valid ESR code.
42	Account Code – Element Number	X(7)	If supplied this must be a valid ESR code.

If a third-party system supplier has been provided with ESR Account Codes then they can be included in this record and used to override the defaults normally associated with an element. The mechanisms by which ESR Account Codes could be made available to a third-party are outside the scope of this document to discuss.

5.2.4 Footer Record

The footer record must be the last record of the file. There must be one and only one footer record. A record count and hash total is contained within the footer. The record count is checked to ensure it matches the number of Element Records in the file. The hash total may be populated but is currently ignored.

No	Data Item	Data Format	Comments
0	Record Type	F(3)+	A constant always set to 'FTR' = Footer
1	Record Count	N(7)+	The number of records in the file excluding the file header and footer

No	Data Item	Data Format	Comments
			records.
2	Hash Total	N(10,2)	Any valid numeric value may be supplied. If supplied ESR only validates that this field is numeric.

6 Non Functional Qualities

This section deals with the operational issues for the interface such as scheduling, housekeeping, and exception handling.

6.1 Delivery Frequency

T&A files may arrive from numerous sources at anytime. Upon arrival of a file, ESR will notify the user via a Workflow message.

File Name	Transfer Frequency	Comments
TA_TTT_SYS_PRYNN_999999.DAT	Ad-hoc Basis	User Initiated

6.2 Volumes and Sizes

There is no maximum limit to the T&A file sizes. The average size of a record varies according to the record type. The table below shows the assumptions used for estimating the record size and volume.

Record Type	(1) Average Record Size	(2) Records	File Size
Per File Total	120 Bytes	2000	240 KB
Yearly Total		15,600,000	1.8 GB

The above figures are derived assuming,

- (1) Based on rough estimates of
 - a. Source System Employee Reference 10 bytes
 - b. ESR Assignment Number 10 bytes
 - c. Element Name 20 bytes
 - d. Input Value Name 15 bytes (x3)
 - e. Entry Value 5 bytes (x3)
- (2) Based on 2,000 persons per trust, one record per person per month
- (3) Based on 12 payrolls per year, for 650 Trusts

6.3 Timings and Scheduling

File arrival times are outside the control of the ESR service and may arrive at any time. File upload processing is user-initiated and may also occur at any time.

6.4 Exception Handling

Errors outlined in section 4.4, both structural in nature and as a result of data content, are reported to the user via the process error logs. With the rare but possible exception of a program failure, the success or failure of the file load is the responsibility of the Trust and the T&A system provider.

7 Assumptions, Issues, and Forecast Changes

7.1 Assumptions

Following assumptions have been made

- Any information sent via this interface is deemed to be approved by ESR.

7.2 Forecast Changes

None.

7.3 Open Issues

ID	Issue	Resolution	Responsibility	Impact Date
	None.			

7.4 Closed Issues

ID	Issue	Resolution	Responsibility	Impact Date
	None.			

8 Appendix A - Examples

8.1 Sample Elements

The following are typical (though by no means a complete set of) elements and their input values that might be supplied via this interface.

Element Name	Input Value Name	Data Type	List of Values
Hourly Elements			
Basic NR NHS	Basic Units+	Hours in Decimal format (2 places)	
	Earned Date		
Overtime NR NP NHS	Plain Time Overtime	Hours in Decimal format (2 places)	
	Weekday Overtime	Hours in Decimal format (2 places)	
	Saturday Overtime	Hours in Decimal format (2 places)	
	Sunday Overtime	Hours in Decimal format (2 places)	
	Night Duty Overtime	Hours in Decimal format (2 places)	
	Unsocial Overtime	Hours in Decimal format (2 places)	
	Bank Holiday Overtime	Hours in Decimal format (2 places)	
	Rest Day over WT	Hours in Decimal format (2 places)	
	Earned Date		
Enhanced NR NHS	Saturday Enhanceable	Hours in Decimal format (2 places)	
	Sunday Enhanceable	Hours in Decimal format (2 places)	
	Night Duty Enhanceable	Hours in Decimal format (2 places)	
	Unsocial Enhanceable	Hours in Decimal format (2 places)	
	Bank Holiday Enhanceable	Hours in Decimal format (2 places)	
	Rest Day up to WT	Hours in Decimal format (2 places)	
	Earned Date		
Timesheet Checked NHS	Checked	Generated Internally by ESR	
Agenda For Change Elements			
AfC Call Out NR NHS	Scheme+	Character	NHS
	Allowance Type+	Character	'NPH'=Non Public Holiday 'PH'=Public Holiday
	Hours Worked+	Hours in Decimal format (2 places)	
	Multiplier Rate Override	Number	
	Period Cash Amount	Money	
	Earned Date	Date	
AfC Shift Change NR NHS	Scheme+	Character	NHS
	Allowance Type+	Character	'<24'=Less than 24 hours notice
	Units Worked+	Integer	
	Unit Rate Override	Number	
	Period Cash Amount	Money	
	Earned Date	Date	
	Pensionable Indicator	Character	Yes/No (Default No)
Whitley Council Elements for non-Agenda For Change Assignments			
Recall to Work NR NP NHS	Scheme+	Character	NHS or Trust ID
	Allowance Type+	Character	'RECALL1.0'= Recall to Work - Amb Plain 'RECALL1.5'=Recall to Work - 1.5T 'RECALL2'=Recall to Work - 2T
	Recall Hours Worked+	Hours in Decimal format (2 places)	
	Earned Date	Date	
	Factor Override	Number	
	Period Cash Amount	Money	
Work Done NR NP NHS	Scheme+	Character	NHS or Trust ID
	Allowance Type+	Character	'ON_CALL'=On Call

Element Name	Input Value Name	Data Type	List of Values
			'STANDBY'=On Standby 'WORK_SUP'=Supervised Work Done 'WORK_DONE'=Work Done
	Units Worked+	Number	
	Earned Date	Date	
Emergency Work NR NHS	Scheme+	Character	NHS or Trust ID
	Allowance Type+	Character	'TIME_HALF'=Emergency Work x1.5 'DOUBLE_TIME'=Emergency Work x2
	Hours Worked+	Number	
	Earned Date	Date	
Emergency Work NR NP NHS	Scheme+	Character	NHS or Trust ID
	Allowance Type+	Character	'TIME_HALF'=Emergency Work x1.5 'DOUBLE_TIME'=Emergency Work x2
	Hours Worked+	Number	
	Earned Date	Date	

Note: '+' Indicates a mandatory value

For the above table Data Types are defined as

Character A character string

Date A valid date in the format YYYYMMDD

Number A decimal number

Money A number with 2 decimal places

For Allowance Type the value within the single quotes should be supplied in the file

8.2 Sample File

The following are sample file layout adhering to the interface file format.

```
HDR,TA 426 UPT NM0411 000021.DAT,20021231092100,UPT,426,M,N,11
ATT,20021031,ADD,UPT2,265,, "Basic NR NHS", "Basic Units",2.00
ATT,20021031,ADD,UPT2,265,, "Overtime NR NP NHS", "Plain Time Overtime",2.00,"Saturday Overtime",8.00,"Sunday Overtime",4.00
ATT,20021031,ADD,UPT2,265,, "Enhanced NR NHS", "Saturday Enhanceable",8.00,"Sunday Enhanceable",4.00
ATT,20021031,ADD,UPT2,266,, "Basic NR NHS", "Basic Units",2.00
ATT,20021031,ADD,UPT2,266,, "Overtime NR NP NHS", "Plain Time Overtime",2.00,"Saturday Overtime",8.00,"Sunday Overtime",4.00
ATT,20021031,ADD,UPT2,266,, "Enhanced NR NHS", "Saturday Enhanceable",8.00,"Sunday Enhanceable",4.00
ATT,20021031,ADD,UPT2,267,, "Basic NR NHS", "Basic Units",2.00
ATT,20021031,ADD,UPT2,267,, "Overtime NR NP NHS", "Plain Time Overtime",2.00,"Saturday Overtime",8.00,"Sunday Overtime",4.00
ATT,20021031,ADD,UPT2,267,, "Enhanced NR NHS", "Saturday Enhanceable",8.00,"Sunday Enhanceable",4.00
FTR,9,84
```

.