



Department
for Education

Phonics screening check data collection 2014

Technical specification, version 1.0

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Version history

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Introduction

1.1. Audience and Purpose

This specification describes the phonics screening check data collection 2014. It will enable schools, academies (including free schools), local authorities (LAs), and software suppliers working on their behalf, to prepare the necessary data and processes for compliance so that all data relating to the phonics screening checks carried out in 2014 can be returned to DfE.

The specification covers the expected return to the DfE and the validation rules which will be applied. It should be read in conjunction with the current CBDS definitions and assessment components (A_COMP) 2013 to 2014 module which can be found on the department's website.

1.2. Scope

This data collection process covers all maintained schools and academies (including free schools) in England, submissions are processed through an LA who in turn will provide data on all phonics screening checks carried out in 2014. The data consists of pupil-level information.

The collection will include all year 1 pupils and those in year 2 who did not meet the expected level in year 1.

The following diagram outlines the overall scope of the collection:

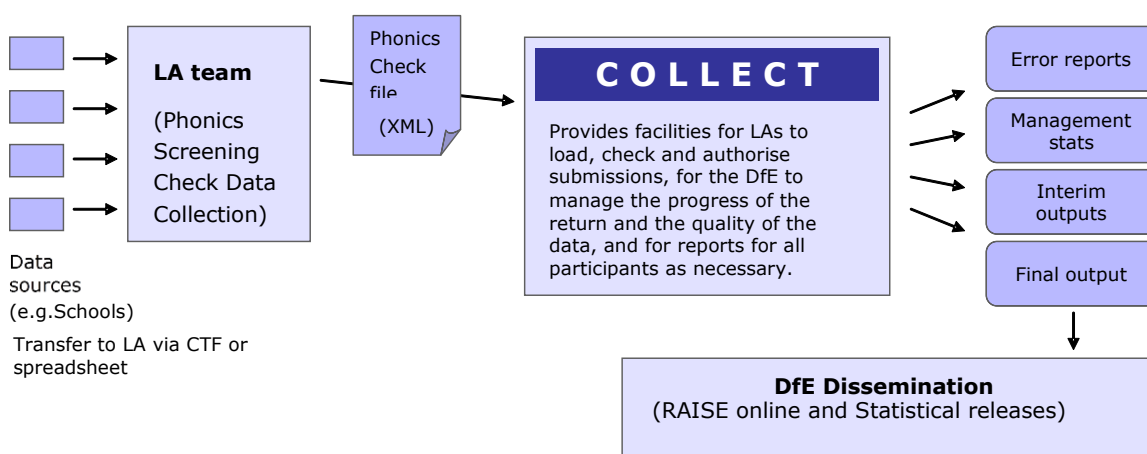


Figure 1: High level data collection process

This requirements specification consists of one document containing a narrative, sample XML and validation. LAs and suppliers should also refer to the latest version of the [Common Basic Data Set](#).

1.3. Business rationale

The following factors are the business drivers behind this approach:

- It is consistent with the overall vision behind the Data Sharing Protocol of collecting data once and using it many times;
- It is based on the principle that local authorities and schools are expected to hold/manage data for their own purposes, or have data held on their behalf so that they can access and extract it.

1.4. Changes for 2014

Changes have been kept to a minimum and are limited to: changes of date and some grammatical changes.

1.5. Assumptions

Assumptions made in creating this specification:

- A1 Where appropriate, the data specification has used CBDS/ISB data standards;
- A2 The return will use COLLECT as the data collection mechanism;
- A3 DfE will only accept submissions in XML format from LAs.

1.6. Coverage and Timings

Maintained schools (including academies and free schools) will capture the data specified for the 2014 phonics screening check. The data will then be collected via DfE's COLLECT system between 16 June and 31 July 2014. Data received after 31 July 2014 will not be included in the provisional statistics or release of data in RAISE online. The collection will close on 26 September 2014, no further amendments will be accepted after this date.

1.7. Data Standards

It is the long-term strategy of the department to adopt the [ISB standards](#) to support the transfer of data between other public sector bodies and government departments. This specification has been developed with those standards in mind; where deviations occur explanation notes have been provided.

2. Structure and Guidance

2.1. Outline data content

Each return from an LA will consist of one or more files each of which has a header and a school module containing a pupil module with a number of pupil records. Each pupil record will include identifiers plus the mark and outcome achieved in the Phonics Screening Check. Multiple files should be returned as a .zip file.

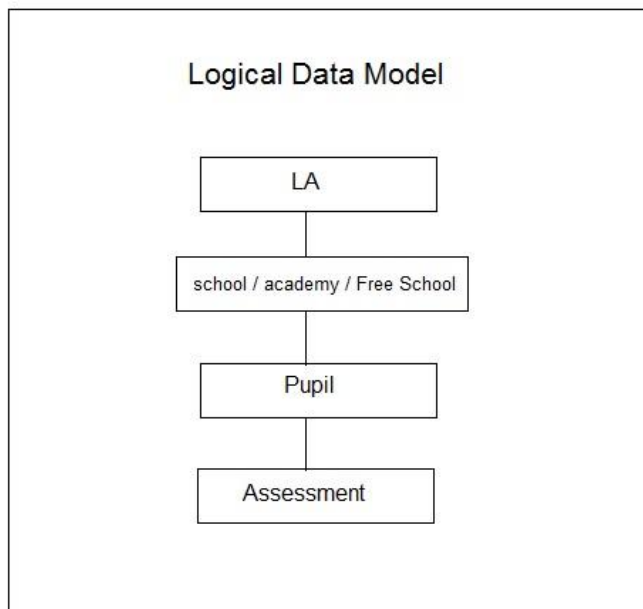


Figure 2: outline structure of data

2.2. Process

The process will involve an annual screening check where teachers will assess students on their phonics decoding ability. Students will be asked to read out 40 items with a teacher. These items will be a mix of real words and pseudo-words. The teacher will then score each item (1 mark for a correct answer) and total the scores to make up the mark for the screening check. Based on this mark the student will be assigned an outcome. Teachers will be told the threshold score for the check (marks out of 40 required to meet the standard) when they open the materials for the assessment.

By the end of the assessment the teacher should have information to populate two fields, mark and outcome, for each student. This can also be automated and MI systems could calculate the outcome based on mark and threshold supplied.

Local authorities will monitor 10% of the schools in their area. Monitoring visits will take place before the check (to check materials are being held securely), and during the time of the check to ensure the administration process is being followed and observe some screening checks taking place. If necessary, local authorities can also carry out monitoring visits immediately after the check week. LAs have been informed of the general arrangements, and the funding being provided for this work. A guidance document will be sent out for monitors to LAs in the Spring term of 2014.

2.2.1. Entry of marks and outcomes into school MIS

Data will be gathered in the collection for all year 1 pupils and those in year 2 who did not meet the expected level in year 1. In addition to the basic pupil identifiers (as collected in other collections), there will be 3 data items for each pupil.

The three data items 'NC Year Group Actual', 'Phonics Outcome' and 'Phonics Mark' are the required components of the 'phonics screening check' data collection.

The 'Phonics Outcome' field is to be populated by the outcome of a Phonics Screening Check, selected from the following values:

Wa – met the expected phonic decoding standard for a pupil at the end of year 1

Wt – has not met the expected phonic decoding standard for a pupil at the end of year 1

A – Absent

Q – Maladministration

D – Disapplied

L – Left

The 'Phonics Mark' will record the actual mark from the screening check (a mark out of 40) as a two digit integer. There will be a specified mark threshold which then determines the outcome. Results will be collected by the department, using the COLLECT system, for all pupils in year 1 and those taking the check again in year 2.

2.2.2. MIS data entry checks

The school MIS software should check that a valid entry has been made in the fields for the phonics screening check where appropriate. Any invalid or missing entries should be reported to the school when the data is entered and/or when the CTF is to be created.

2.2.3. Creation of CTF phonics file for transmission to LA

Maintained schools must submit the results of the phonics screening check to their LA. Academies (including free schools) must submit the results of the phonics screening check to their geographical LA. This will normally be via a CTF and when using this route, the name of the CTF created by schools will be:

xxxnnnn_PHO_xxxLLLL_yyy.XML where xxx represents the LA number, nnnn is the school number and yyy is an incremented version number starting at 001.

2.2.4. Loading phonics results into the LA's central management system

- i) Where any pupil-identifying or contextual data are already present in the LA central database there should be a prompt to ask if the existing data should be overwritten by the CTF or CSV import.
- ii) Where a CTF contains any pupil's previous assessment data (e.g. earlier year's EYFSP result) there should be a prompt to ask if the existing assessment data should be overwritten.
- iii) The LA should also have facilities:
 - to remove and to add pupils;
 - to amend a pupil's identifying data or result levels that have been loaded, and for the new data to be re-validated in accordance with the rules in sections 3.1 to 3.3.
 - to re-import a corrected CTF with an option for the operator to either replace all existing data or add as new data, and be validated in accordance with the rules in sections 3.1 to 3.3.

2.2.5. Creation of individual pupil results XML export file by the LA for transmission to the DfE

- i) On completion of the actions at 2.2.4, the software should allow the LA to create separate XML files of individual school and pupil data, as specified in the example XML file at section 2.5, even if still containing errors, for loading into the DfE data collection system (COLLECT). Where no assessment result level is reported for a subject, all assessment components for that subject should be excluded from the XML file. The XML file should be validated in accordance with the rules in sections 3.1 to 3.3. Any data failing the validation checks should be reported using the error codes and messages specified. In addition to LA and school number, the file will contain the following data items for each pupil:
 - UPN
 - pupil surname

- pupil forename
- DoB
- Gender
- National curriculum year group
- Phonics Check Result - Mark as recorded
- Phonics Check Result – Outcome as recorded

Please note – An approved SoftwareCode will not be issued. COLLECT will use the SoftwareCode tag value specified by suppliers for this purpose.

- ii) The convention for naming the XML file is: xxxLLLL_PHO_xxxDfE_yyy.XML where xxx represents the LA number, and yyy is an incremented version number starting at 001.
- The LA should be provided with options to include in the export XML:
 - **all** schools' files even if these contain errors or have previously been exported (- the software should inform the operator if a school is in error or has previously been exported);
 - **selected** files (i.e. a single school or multiple schools), even if these contain errors or have previously been exported (the software should inform the operator if a school is in error or has previously been exported).

N.B. Whichever option above is chosen, all individual pupil results within the school are to be exported. There must be one file per school.

2.2.6. Loading phonics results into the LA's central management system

In addition, the software should allow the LA to load into its central database a CSV file created by schools from a Phonics Excel Independent spreadsheet (to be supplied to LAs by the DfE for distribution if necessary) with the filename Phonics spreadsheet v1.0. A copy of the spreadsheet can be provided when available, if required.

2.3. Additional LA software facilities

The software should provide the following additional facilities:

- i) to allow the LA to produce a list of schools to check that all expected schools' returns have been processed
- ii) to allow the LA to produce a report for each school or for all schools to show total number of pupils included in each school's CTF submission. It could also include number of boys and girls as an additional check

- iii) to allow the LA to transmit results in batches without the need to resubmit results already transmitted.

2.4. Reports for schools and parents

Schools will be expected to report to parents, or persons with parental responsibility, the phonics screening check outcomes for their children. Further information is given in Section 7 of the [key stage 1 assessment and reporting arrangements document](#) which is available on our website.

Data return formats

A submission file from an LA should be provided in a XML file structure as described in 2.5. Where an optional item is not included then the associated tag should also be omitted. Where a mandatory item is omitted then an error will be generated.

Special notes for XML returns

The standard XML entity references should be used for the following special characters:

Character	Entity reference
Ampersand (&)	&
Left Angle Bracket (<)	<
Right Angle Bracket (>)	>
Single Quote / Apostrophe (')	'
Double Quotes (")	"

For special characters such as é use a character reference such as é This produces a generic XML file which can be viewed as such in a suitable browser. Details of all such characters are found within the XML standard documentation; see for example <http://www.w3.org/TR/xml/>, section 2.2.

2.5. Example file structure for XML returns

CBDS Ref	XMLFormatLayout	Notes
	<?xml version="1.0" encoding="UTF-8"?>	
	<PhonicsFile>	
	<Header>	
800001	<Collection>Phonics Transfer File</Collection>	Fixed value of "Phonics Transfer File"
800010	<DateTime>2014-06-24T15:30:47</DateTime>	
100266	<Year>2014</Year>	Fixed value of '2014'
200001	<LEA>302</LEA>	Valid values listed in section 5.
800006	<SoftwareCode>KEYPAS</SoftwareCode>	Suppliers decide on code used by their system
	</Header>	
	<School>	
200002	<Estab>3501</Estab>	Valid values listed in section 5.
	<Pupils>	
	<Pupil>	A repeatable group of 1 or more
100001	<UPN>A123456789012</UPN>	
100003	<Surname>Smith</Surname>	
100004	<Forename>John</Forename>	
100007	<DOB>2008-02-02</DOB>	
100008	<Gender>M</Gender>	
100068	<NCyearActual>1</NCyearActual>	NCyearActual must be included and would be expected to be 1 or 2
	<Assessments>	
	<Assessment>	
100466	<Subject>PHO</Subject>	<Assessment> : A repeatable group of 1 or more depending on the combination of <Subject>, <Method>, <Component> and <ResultQualifier> required. See A_Comp 2014.
100273	<Method>TT</Method>	
100274	<Component>CHK</Component>	
100275	<ResultQualifier>NY</ResultQualifier>	
100276	<Result>Wa</Result>	
	</Assessment>	

CBDS Ref	XMLFormatLayout	Notes
	<Assessment>	<Assessment> : A repeatable group of 1 or more depending on the combination of <Subject>, <Method>, <Component> and <ResultQualifier> required. See A_Comp 2014.
100466	<Subject>PHO</Subject>	
100273	<Method>TT</Method>	
100274	<Component>CHK</Component>	
100275	<ResultQualifier>NM</ResultQualifier>	
100276	<Result>39</Result>	
	</Assessment>	
	</Assessments>	
	</Pupil>	
	</Pupils>	
	</School>	
	</PhonicsFile>	

3. Data Validation Rules

This section specifies validation rules that are applied to the data by DfE, using COLLECT. They should also be applied, as far as possible, by LAs prior to loading the data onto the COLLECT system and any issues resolved. Those data items included in the specification but not appearing in the validation rules - that is, those not shown in the validation rules as "must be present" - should be supplied where available (e.g. child's UPN). The rules also show which validations are errors and which ones are queries. An error is a failed validation check that must be corrected. A query is one which must be investigated, and potentially corrected, as it identifies data that would usually be invalid.

Syntax:

- Validation checks are expressed as conditions that must be true (errors) or that should be true (queries). The Error Message shows what is displayed if the condition is not met.
- data items are indicated using the XML tag with the CBDS number in parentheses, for example <UPN> (100001)
- data groups are indicated using the XML tag only, for example <Assessments>
- single dates or date ranges are sometimes defined in relation to <ReferenceDate>, which is from the XML Header.

3.1. Header Validation

Seq Number	Error/ Query	Validation Check	Error Message
001	Error	<Collection> (800001) must be present with a value of "Phonics Transfer File"	Document Name missing or invalid. The file must be recreated
101	Error	<SoftwareCode> (800006) must be present	Software Code is missing
110	Error	<Year> (100266) must be present and = 2014	Year is missing or invalid

3.2. Establishment Level Validation

Seq Number	Error/ Query	Validation Check	Error Message
301	Error	<LEA> (200001) must be provided and must be a valid value	Local Authority number missing or invalid
302	Error	<Estab> (200002) must be present with a valid value	Establishment No is missing

3.3. Pupil Level Validation

Seq Number	Error/ Query	Validation Check	Error Message
Pupil Identifiers			
1600	Error	<DOB> (100007) must be present and in a valid format	Pupil's date of birth is missing or in an invalid format. Format should be CCYY – MM - DD
1601Q	Query	<DOB> (100007) should be between 1/9/2006 and 31/8/2008	Pupil's Date of Birth is outside expected date range
1610	Error	<Gender> (100008) must be present and a valid value	Pupil Gender missing or invalid
1500	Error	<UPN> (100001) (Unique Pupil Number) must be present	UPN is missing

Seq Number	Error/ Query	Validation Check	Error Message
1510	Error	<p>If UPN is present then <UPN> (100001) must contain the correct check letter</p> <p>To calculate the check letter:</p> <p>1. Multiply the individual digits by their weights as follows: digit 2 by weight 2; digit 3 by weight 3; digit 4 by weight 4; digit 5 by weight 5; digit 6 by weight 6; digit 7 by weight 7; digit 8 by weight 8; digit 9 by weight 9; digit 10 by weight 10; digit 11 by weight 11; digit 12 by weight 12; digit 13 by weight 13.</p> <p>2. Sum the individual results, divide the total by 23, and take the remainder.</p> <p>3. Calculate the check letter from the result as follows: 0 = A; 1 = B; 2 = C; 3 = D; 4 = E; 5 = F; 6 = G; 7 = H; 8 = J; 9 = K; 10 = L; 11 = M; 12 = N; 13 = P; 14 = Q; 15 = R; 16 = T; 17 = U; 18 = V; 19 = W; 20 = X; 21 = Y; 22 = Z.</p> <p>For calculating the check letter (see above) any alphabetical character at digit 13 is accorded the same numerical value as listed in paragraph 3 above, i.e. A=0, B=1, C=2 etc.</p>	UPN invalid (wrong check letter at character 1)
1520	Error	Each pupil <UPN> (100001) must be unique across all pupils in the Estab	More than one pupil record with the same UPN
1530	Error	If <UPN> (100001) is present Characters 2-4 of <UPN> (100001) must be a valid post April 1999 LA code or a recognised "pseudo LA" code (001-005, 201-213, 301-320, 330-336, 340-344, 350-359, 370-373, 380-384, 390-394, 420, 660-681, 701-708, 800-803, 805-808, 810-813, 815, 816, 820-823, 825, 826, 830, 831, 835-837, 840, 841, 845, 846, 850-852, 855-857, 860, 861, 865-896, 908, 909, 916, 919, 921, 925, 926, 928, 929, 931, 933, 935-38)	UPN invalid (characters 2-4 not a recognised LA code)
1540	Error	If <UPN> (100001) is present Characters 5-12 of <UPN> (100001) must be numeric	UPN invalid (characters 5-12 not all numeric)

Seq Number	Error/ Query	Validation Check	Error Message
1550	Error	If <UPN> (100001) is present Characters 13 of <UPN> (100001) must be numeric or A-Z omitting I, O and S	UPN invalid (character 13 not a recognised value)
1580	Error	<Surname> (100003) must be present	Pupil with surname missing
1590	Error	<Forename> (100004) must be present	Pupil with forename missing
113	Error	Each <Assessment> should only appear once for each <Pupil> for the same combination of <Subject><Component><Method><ResultQualifier>	Assessments are duplicated
123	Error	If <ResultQualifier>=NY and <Result>=Wa or Wt then there must be a record where <ResultQualifier>=NM	Phonics Mark missing
124	Error	For each pupil there must be one and only one instance where <Subject>=PHO and <Component>=CHK and <Method> =TT and <ResultQualifier>=NY	There are multiple assessments where the Subject, Component, Method and Result Qualifier combinations are the same.
125	Error	If <Subject>=PHO, <Component>=CHK and <ResultQualifier>=NY then <Result> must be one of Wt, Wa, A, Q, D, L	The outcome result is invalid and should be one of Wt, Wa, A, Q, D or L
126	Error	For each pupil there must be one and only one instance where <Subject>=PHO and <Component>=CHK and <Method> =TT and <ResultQualifier>=NM	There are multiple assessments where the Subject, Component, Method and Result Qualifier combinations are the same.
127	Error	If <Subject>=PHO, <Component>=CHK and <ResultQualifier>=NM then <Result> must be an integer in the range 0 – 40 inclusive	The outcome result is invalid and must be in the range 0 to 40
128	Error	If <ResultQualifier>=NM and <Result>=0 - 40 then there must be a record where <ResultQualifier>=NY	Phonics outcome missing

Seq Number	Error/ Query	Validation Check	Error Message
129	Error	If <ResultQualifier>=NM and its result is present AND there is a record for the same pupil where <ResultQualifier>=NY then <Result> must not be A,Q,D or L	Phonics outcome and mark invalid
130	Error	Each <Assessment> must contain <Subject>=PHO	There is an unexpected entry in the Subject container
131	Error	Each <Assessment> must contain <Component>=CHK	There is an unexpected entry in the Component container
132	Error	Each <Assessment> must contain <Method>=TT	There is an unexpected entry in the Method container
133	Error	For each <Pupil> record at least one <Assessment> node must be included.	No assessment data is included for this pupil
134Q	Query	Number of <Assessment> nodes where <Result> equals A, divided by total number of <Pupil> nodes, should not be greater than 0.1.	Please check: proportion of absent pupils is above 10%
136Q	Query	There should be no <Assessment> nodes where <Result> equals Q.	Please check: One or more records marked as Q (maladministration).
137	Error	If <ResultQualifier>=NM and <Result> is greater than or equal to [ThresholdMark] then there must be a corresponding record where <ResultQualifier>=NY and <Result>=Wa	Phonics screening check outcome and mark do not agree
138	Error	If <ResultQualifier>=NM and <Result> is less than [ThresholdMark] then there must be a corresponding record where <ResultQualifier>=NY and <Result>=Wt.	Phonics screening check outcome and mark do not agree
139	Error	In each <Pupil> record <NCyearActual > must be present	National Curriculum year group not provided

Seq Number	Error/ Query	Validation Check	Error Message
141	Error	<NCyearActual > must be equal to '1' or '2'	National Curriculum year group must be either '1' or '2'.

Notes:

4. Resubmission guidance

When resubmissions are required the Serial No in the header **must** be incremented by the provider's software. We have also assumed that the whole file will be resubmitted. Note that a resubmission will **delete and replace all the data** contained in the previous submission.

5. Valid values

Valid item values must be in the list or range specified in CBDS, the [Common Basic Data Set](#), subject to the exceptions and restrictions below.

5.1. LEA codes

LEA codes (CBDS number 200001, codeset D00004) for this collection only covers ENGLAND LAs.

Coverage also excludes LEA codes:

- 001, 003, 167
- codes starting with 6 and 7 except 702 (Service Children's Education, which is valid)
- XXX, MMM and NA

5.2. Establishment types

These are the following;

Maintained schools with a Year 1 or year 2 cohort

Academies (including free schools)

Service Children's Education Schools



Department
for Education

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