NHS WALES INFORMATICS SERVICE

SUBSTANCE MISUSE
DATA QUALITY STANDARDS
(Phase 1)

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Document History

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1.0	15/09/2014	Following review by Sponsor	No

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PURPOSE

The purpose of this document is to describe in detail the recent implementation of data quality checks for substance misuse data, as well as to outline the additional checks which are yet to be added. This should be read in conjunction with the *SM - Data Quality[1]* document which contains a summary of the logic for all checks.

BACKGROUND

Client-level data extracts are submitted to the NHS Wales Informatics Service (NWIS) data warehouse by Substance Misuse Agencies to the using the NHS Wales Data Switching Service (NWDSS). In order to ensure that this data is of sufficient quality to meet reporting needs, it is necessary to employ data integrity checks to validate each data submission.

The Validation at Source Service (VASS) is a facility located on the NHS Wales intranet that enables data providers to identify errors in their dataset extracts at the time of submission to NWDSS. The new checks are designed to ensure that submitting organisations can identify data quality issues prior to formally signing off their data.

Following each submission, Agencies should review their list of errors, correct their source data and resubmit their records. Only when the Agency has resolved their issues and eliminated their errors (where possible) should they sign off their file to allow it to be processed through to the NWIS data warehouse.

These checks will be deployed in three distinct phases:
- **Phase 1** - The first phase implementation contains all of the checks which are critical to preserve the quality of the dataset, which are predominantly **Data Load checks**. Data Load checks are used to protect the integrity of the database by identifying invalid values within a record. If a Data Load error is triggered, the whole record is rejected by the system and will not be processed through to the NWIS data warehouse.
- **Phase 2** - **Data Validity checks**. These will test the values submitted in each record against the set of nationally-agreed values described in the NHS Wales Data Dictionary[2], e.g. Treatment Stage must have a value between 01 and 04. These are due to be deployed on 1st October 2014.
- **Phase 3** - In addition to checking the values submitted in distinct fields, it is also important that relationships between data items are maintained. **Data Consistency checks** build upon the Data Validity checks by testing if related data items are consistent with one another. For example, Date of Birth must be before Date of Referral. This set of checks will be added on 1st January 2015.

Introduction of the Data Validity check for NHS Number will be deferred to Phase 3 to allow the necessary software development to be completed.

The checks included in Phase 1 were deployed prior to the receipt of the first data submissions as these are vital to maintain the integrity of the NWIS data warehouse. This document therefore focuses on the checks applied in Phase 1. A list of the checks and their respective deployment phase is shown in Annex 1. The Phase 1 checks are described in detail in Annex 2.

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[1] http://www.nwisinformationstandards.wales.nhs.uk/opendoc/236992

[2] http://www.datadictionary.wales.nhs.uk/

These descriptions will also be made available on the NWDSS website, thus providing users with a quick and simple reference outlining the logic of the check and any appropriate background information associated with the data item(s) being monitored. The online version of these descriptions will also include a direct link to the data item definition in the NHS Wales Data Dictionary.

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Annex 1 – SUBSTANCE MISUSE VALIDATION AT SOURCE SERVICE CHECKS

Check titles that have been highlighted in **BLUE** relate to the creation of entirely new VASS checks.

NEW VASS CHECKS FOR PHASE 1

VASS #	VASS Check Description	Check Type	Required Changes in VASS	Comments
54200	Duplicate Assessment Details	Data Load Check		
54201	Multiple Assessment Events for Referral	Data Load Check		
54202	Duplicate Treatment Modality Details	Data Load Check		
54203	Duplicate TOP Details	Data Load Check		
54204	Duplicate Discharge Details	Data Load Check		
54205	Multiple Discharge Events for Referral	Data Load Check		
54206	Referral being deleted doesn't exist	Data Load Check		
54207	Assessment being deleted does not exist	Data Load Check		
54208	Treatment being deleted does not exist	Data Load Check		
54209	TOP being deleted does not exist	Data Load Check		
54210	Discharge being deleted does not exist	Data Load Check		
54211	Referral Details with no matching Client Details	Data Load Check		Please note – these checks were deployed within VASS prior to receipt of the first data submissions.
54212	Assessment, Treatment, TOP or Discharge Details with deleted Referral Details	Data Load Check	New checks created	
54213	Invalid Date of Referral	Data Load Check		
54214	Invalid Date of Birth	Data Load Check	See descriptions in Annex 2 for the detailed logic for each	
54215	Invalid Assessment Date	Data Load Check	check	
54216	Invalid Modality Referral Date	Data Load Check		These checks were implemented as part of 'the first phase.
54217	Invalid Top Interview Date	Data Load Check		
54218	Invalid Gender	Data Load Check		
54219	Invalid Agency Code	Data Load Check		
54220	Invalid Treatment Modality	Data Load Check		
54221	Different Person Key against the same Agency Client Number	Data Load Check		
54300	Different Agency Client Number against the same Person Key	Data Validity Check		
54305	Change of Assessment Date	Data Validity Check		
54306	Change of Date Contact Ended	Data Validity Check		
54400	Inconsistent Assessment Date / Date of Referral	Data Consistency Check		
54401	Inconsistent Modality Referral Date / Assessment Date	Data Consistency Check		
54402	Inconsistent Modality Referral Date / Date of Referral	Data Consistency Check		
54403	Inconsistent TOP Interview Date / Date of Referral	Data Consistency Check		

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NEW VASS CHECKS FOR PHASE 2

VASS #	VASS Check Description	Check Type	Required Changes in VASS	Comments
54308	Invalid Ethnic Category	Data Validity Check		
54309	Invalid Reduced Postcode	Data Validity Check		
54310	Invalid Local Authority	Data Validity Check		
54311	Invalid Source of Referral	Data Validity Check		
54312	Invalid Previously Treated	Data Validity Check		
54313	Invalid Ex Services Personnel	Data Validity Check		
54314	Invalid Parental Responsibility	Data Validity Check		
54315	Invalid Children Living in Household	Data Validity Check		
54316	Invalid Problem Substance 1	Data Validity Check		
54317	Invalid Problem Substance 2	Data Validity Check		
54318	Invalid Problem Substance 3	Data Validity Check		
54319	Invalid Injecting Status	Data Validity Check		
54320	Invalid Hepatitis B Vaccination Status	Data Validity Check		
54321	Invalid Blood Borne Virus Test Status	Data Validity Check		
54322	Invalid Co-occurring Mental Health Issues	Data Validity Check		Please note – these checks are not yet operational within VASS. Further development is required before they are deployed.
54323	Invalid Accommodation Need	Data Validity Check		
54324	Invalid Employment Status	Data Validity Check		
54325	Invalid Date First Appointment Offered for Modality	Data Validity Check	New checks to be created	
54326	Invalid Modality Start Date	Data Validity Check		
54327	Invalid Modality End Date	Data Validity Check		These checks will be implemented as part of 'the second phase on 1st October 2014.
54328	Invalid Modality Exit Status	Data Validity Check		
54330	Invalid Treatment Stage	Data Validity Check		
54331	Invalid Number of Days Alcohol Used	Data Validity Check		
54332	Invalid Number of Days Opiate Used	Data Validity Check		
54333	Invalid Number of Days Crack Used	Data Validity Check		
54334	Invalid Number of Days Cocaine Used	Data Validity Check		
54335	Invalid Number of Days Amphetamines Used	Data Validity Check		
54336	Invalid Number of Days Cannabis Used	Data Validity Check		
54337	Invalid Other Problem Substance Used	Data Validity Check		
54338	Invalid Number of Days Other Substance Used	Data Validity Check		
54339	Invalid Number of Days Non-Prescribed Drugs Injected	Data Validity Check		
54340	Invalid Injected with Needle or Syringe used by Someone else	Data Validity Check		
54341	Invalid Number of Days Shoplifting	Data Validity Check		
54342	Invalid Number of Days Selling Drugs	Data Validity Check		
54343	Invalid Criminal Offence Status	Data Validity Check		
54344	Invalid Assault or Violence Status	Data Validity Check		
54345	Invalid Psychological Health Status	Data Validity Check		

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VASS #	VASS Check Description	Check Type	Required Changes in VASS	Comments
54346	Invalid Number of Days Paid Work	Data Validity Check		
54347	Invalid Number of Days Attended College or School	Data Validity Check		
54348	Invalid Physical Health Status	Data Validity Check		
54349	Invalid Urgent Housing Problem Status	Data Validity Check		
54350	Invalid Risk of Eviction Status	Data Validity Check		
54351	Invalid Quality of Life Status	Data Validity Check		
54352	Invalid Date Contact Ended	Data Validity Check		
54353	Invalid Reason Contact Ended	Data Validity Check		

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NEW VASS CHECKS FOR PHASE 3

VASS #	VASS Check Description	Check Type	Required Changes in VASS	Comments
54307	Invalid NHS Number	Data Validity Check	New checks to be created	Please note – these checks are not yet operational within VASS. Further development is required before they are deployed. These checks will be implemented as part of 'the third phase on 1st January 2015.
TBC	Inconsistent Modality Referral Date / Date First Appointment Offered for Modality	Data Consistency Check		
TBC	Inconsistent Modality Referral Date / Modality Start Date	Data Consistency Check		
TBC	Inconsistent Modality Referral Date / Modality End Date	Data Consistency Check		
TBC	Inconsistent Modality Referral Date / Date of Birth	Data Consistency Check		
TBC	Inconsistent Date First Appointment Offered for Modality / Modality Start Date	Data Consistency Check		
TBC	Inconsistent Date First Appointment Offered for Modality / Modality End Date	Data Consistency Check		
TBC	Inconsistent Date First Appointment Offered for Modality / Modality Exit Status	Data Consistency Check		
TBC	Inconsistent Date First Appointment Offered for Modality / Date of Referral	Data Consistency Check		
TBC	Inconsistent Modality Start Date / Modality End Date	Data Consistency Check		
TBC	Inconsistent Modality Start Date / Modality Exit Status	Data Consistency Check		
TBC	Inconsistent Modality Start Date / Date Contact Ended	Data Consistency Check		
TBC	Inconsistent Modality End Date / Modality Exit Status	Data Consistency Check		
TBC	Inconsistent Reason Contact Ended / Modality End Date	Data Consistency Check		
TBC	Inconsistent TOP Interview Date / Treatment Stage	Data Consistency Check		
TBC	Inconsistent TOP Interview Date / Treatment Stage / Date Contact Ended	Data Consistency Check		
TBC	Inconsistent Date of Birth / Date of Referral	Data Consistency Check		
TBC	Inconsistent Modality End Date / Date Contact Ended	Data Consistency Check		
TBC	Inconsistent TOP Interview Date / Assessment Date	Data Consistency Check		
TBC	Inconsistent Date Contact Ended / Assessment Date	Data Consistency Check		
TBC	Inconsistent Date Contact Ended / Referral Date	Data Consistency Check		
TBC	Inconsistent Date of Referral / Modality Start Date	Data Consistency Check		

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Check titles that are highlighted in **RED** relate to existing VASS checks which are to be removed.

EXISTING VASS CHECKS

VASS #	VASS Check Description	Check Type	Required Changes in VASS	Comments
57450	Invalid Record ID	Data Load Check		
57451	Invalid or Blank Forename	Data Load Check		
57452	Invalid or Blank Surname	Data Load Check		
57453	Invalid or Blank Date of Birth	Data Load Check		
57454	Invalid or Blank Gender	Data Load Check		
57455	Blank Client Number	Data Load Check		
57456	Invalid or Blank Agency Code	Data Load Check		
57457	Invalid or Blank Referral Date	Data Load Check		
57459	Invalid TOP Interview Date	Data Load Check		
57460	Duplicate Record	Data Load Check		
57461	Referral Being Deleted does not Exist	Data Load Check	Existing checks to be removed	
57463	Treatment Date with no Assessment Date	Data Load Check		
57464	Treatment Date with an invalid Assessment Date	Data Load Check		
57465	Treatment Date before Assessment Date	Data Load Check		
57466	Futuristic Referral Date	Data Load Check		
57467	Futuristic TOP Interview Date	Data Load Check		
57468	TOP Interview Date is before Referral Date	Data Load Check		
57469	Futuristic Date of birth	Data Load Check		
57470	Different Person Key against the same Client Number	Data Load Check		
57471	TOP being deleted does not exist	Data Load Check		
57473	Project code present but no project description	Data Load Check		

Annex 2 – DETAILED VASS CHECK DESCRIPTIONS

The following section outlines in detail the validation rule logic for each VASS check that will be in operation when VASS is updated to reflect the changes described in this document.

The following tables will form the basis of the updated Substance Misuse VASS Check Logic webpage, which can be accessed via the NWDSS website for Substance Misuse:

http://www.nwdss.wales.nhs.uk/

Please note that these tables are included in this document for reference only and may be subject to change should future changes be made to a specific data item.

Readers are advised to reference the NHS Wales Data Dictionary and the online VASS Check Logic webpage for the most up-to-date data definitions and VASS check descriptions.

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54200 – Duplicate Assessment Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Duplicate Assessment Details** When data is loaded, an assessment element should not appear more than once in the input file and cannot be allowed to appear more than once on the national database itself. If a duplicate assessment element is detected all instances of that element will be rejected from the load process and flagged as errors. Assessment elements are classed as duplicates if two or more elements are related to the same referral (i.e. same Agency Code, Agency Client Number and Date of Referral) and also share the same key data item(s) (i.e. Assessment Date). Duplicate elements are only permitted when replacing existing assessment details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission. Below are some example scenarios and their outcomes.

Example 1 - file contains only unique elements (no duplicates found):

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

Example 2 - file contains three versions of the same element (duplicates found):

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	2014-07-03	Rejected
U0XXX	10001	2014-07-01	add	2014-07-03	Rejected

Example 3 - file contains two versions of the same element but one is deletion and the other is add/update:

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	2014-07-03	Loaded*
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

*Although these elements are duplicates they are allowed to load as they are replacing the existing details on the national database.

IMPORTANT:

Please note that the table above is included in this document for reference only and may be subject to change should future changes be made to a specific data item.

Readers are advised to reference the NHS Wales Data Dictionary and the online VASS Check Logic webpage for the most up-to-date data definitions and VASS check descriptions.

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54201 – Multiple Assessment Events for Referral

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Multiple Assessment Details for Referral** The national database can only hold one set of assessment details per referral. If more than one unique assessment element per referral are detected in the input file, all assessment elements for that referral will be rejected from the load process and flagged as errors. Assessment elements are classed as multiple elements if two or more elements are related to the same referral (i.e. share the same Agency Code, Agency Client Number and Date of Referral) but have different Assessment Dates. Multiple assessment elements for a referral are only permitted when replacing existing assessment details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission. Below are some example scenarios and their outcomes.

Example 1 – File contains only assessment elements with a unique referral:

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

Example 2 – File contains three assessment elements for one referral (multiple elements found):

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	2014-07-05	Rejected
U0XXX	10001	2014-07-01	add	2014-07-09	Rejected

Example 3 – File contains two assessment elements for one referral but one record is deletion and the other is add/update:

Referral Details			Assessment Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Assessment Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	2014-07-01	Loaded*
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

*Although these elements are for the same referral they are allowed to load as they are replacing the existing details on the national database.

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54202 – Duplicate Treatment Modality Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Duplicate Treatment Modality Details** When data is loaded, a treatment modality element should not appear more than once in the input file and cannot be allowed to appear more than once on the national database itself. If a duplicate treatment modality element is detected all instances of that element will be rejected from the load process and flagged as errors. Treatment modality elements are classed as duplicates if two or more elements are related to the same referral (i.e. same Agency Code, Agency Client Number and Date of Referral) and also share the same key data item(s) (i.e. Treatment Modality Kind and Modality Referral Date). Duplicate elements are only permitted when replacing existing treatment modality details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission. Below are some example scenarios and their outcomes.

Example 1 - file contains only unique elements (no duplicates found):

Referral Details			Treatment Modality Details			Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Modality Type	Modality Referral Date	
U0XXX	10001	2014-07-01	update	01	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	05	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	08	2014-08-13	Loaded

Example 2 - file contains three versions of the same element (duplicates found):

Referral Details			Treatment Modality Details			Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Modality Type	Modality Referral Date	
U0XXX	10001	2014-07-01	update	01	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	01	2014-07-03	Rejected
U0XXX	10001	2014-07-01	add	01	2014-07-03	Rejected

Example 3 - file contains two versions of the same element but one is deletion and the other is add/update:

Referral Details			Treatment Modality Details			Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Modality Type	Modality Referral Date	
U0XXX	10001	2014-07-01	update	01	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	01	2014-07-03	Loaded*
U0XXX	10003	2014-08-01	add	08	2014-08-13	Loaded

*Although these elements are duplicates they are allowed to load as they are replacing the existing details on the national database.

IMPORTANT:

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54203 – Duplicate TOP Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Duplicate TOP Details** When data is loaded, a TOP element should not appear more than once in the input file and cannot be allowed to appear more than once on the national database itself. If a duplicate TOP element is detected all instances of that element will be rejected from the load process and flagged as errors. TOP elements are classed as duplicates if two or more elements are related to the same referral (i.e. same Agency Code, Agency Client Number and Date of Referral) and also share the same key data item(s) (i.e. TOP Interview Date). Duplicate elements are only permitted when replacing existing TOP details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission. Below are some example scenarios and their outcomes. **Example 1 - file contains only unique elements (no duplicates found):**

Example 1 - file contains only unique elements (no duplicates found):

Referral Details			TOP Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Interview Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

Example 2 - file contains three versions of the same element (duplicates found):

Referral Details			TOP Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Interview Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	2014-07-03	Rejected
U0XXX	10001	2014-07-01	add	2014-07-03	Rejected

Example 3 - file contains two versions of the same element but one is deletion and the other is add/update:

Referral Details			TOP Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Interview Date	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	2014-07-03	Loaded*
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

*Although these elements are duplicates they are allowed to load as they are replacing the existing details on the national database.

IMPORTANT:

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54204 – Duplicate Discharge Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Duplicate Discharge Details** When data is loaded, a discharge element should not appear more than once in the input file and cannot be allowed to appear more than once on the national database itself. If a duplicate discharge element is detected all instances of that element will be rejected from the load process and flagged as errors. Discharge elements are classed as duplicates if two or more elements are related to the same referral (i.e. same Agency Code, Agency Client Number and Date of Referral) and also share the same key data items (i.e. Date Contact Ended). Duplicate elements are only permitted when replacing existing discharge details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission. Below are some example scenarios and their outcomes. **Example 1 - file contains only unique elements (no duplicates found):**

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

Example 2 - file contains three versions of the same element (duplicates found):

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	2014-07-03	Rejected
U0XXX	10001	2014-07-01	add	2014-07-03	Rejected

Example 3 - file contains two versions of the same element but one is deletion and the other is add/update:

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	2014-07-03	Loaded*

| U0XXX | 10003 | 2014-08-01 | add | 2014-08-13 | Loaded |

*Although these elements are duplicates they are allowed to load as they are replacing the existing details on the national database.

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54205 – Multiple Discharge Events for Referral

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Multiple Discharge Details for Referral**

Validation Rule (continued)

Multiple Discharge Details for Referral

The national database can only hold one set of discharge details per referral.

If more than one unique discharge element per referral are detected in the input file, all discharge elements for that referral will be rejected from the load process and flagged as errors.

Discharge elements are classed as multiple elements if two or more elements are related to the same referral (i.e. share the same Agency Code, Agency Client Number and Date of Referral) but have a different Date Contact Ended.

Multiple discharge elements for a referral are only permitted when replacing existing discharge details. In this case, an 'add' or 'update' element and a 'delete' element are permitted in the data submission.

Below are some example scenarios and their outcomes.

Example 1 – File contains only discharge elements with a unique referral:

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded
U0XXX	10002	2014-07-05	delete	2014-07-11	Loaded
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

Example 2 – File contains three discharge elements for one referral (multiple elements found):

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Rejected
U0XXX	10001	2014-07-01	delete	2014-07-05	Rejected
U0XXX	10001	2014-07-01	add	2014-07-09	Rejected

Example 3 – File contains two discharge elements for one referral but one record is deletion and the other is add/update:

Referral Details			Discharge Details		Outcome
Agency Code	Agency Client Number	Date of Referral	Update Status	Date Contact Ended	
U0XXX	10001	2014-07-01	update	2014-07-03	Loaded*
U0XXX	10001	2014-07-01	delete	2014-07-01	Loaded*
U0XXX	10003	2014-08-01	add	2014-08-13	Loaded

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	*Although these elements are for the same referral they are allowed to load as they are replacing the existing details on the national database.

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54206 – Referral being deleted doesn't exist

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Referral being deleted doesn't exist** If a referral event is submitted with an update status of 'delete', a check is made on the database to confirm that the referral to be deleted exists. If a referral with the same Agency Code, Agency Client Number and Date of Referral is not found, the 'delete' referral event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54207 – Assessment being deleted doesn't exist

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Assessment being deleted doesn't exist** If an assessment event relating to a referral is submitted with an update status of 'delete', a check is made on the database to confirm that the assessment event to be deleted exists for that referral. If an assessment event for that referral with the same assessment date is not found, the 'delete' assessment event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54208 – Treatment being deleted doesn't exist

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Treatment being deleted doesn't exist** If a Treatment Modality event relating to a referral is submitted with an update status of 'delete', a check is made on the database to confirm that the Treatment Modality event to be deleted exists for that referral. If a Treatment Modality event for that referral with the same Treatment Modality and Modality Referral Date is not found, the 'delete' Treatment Modality event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54209 – TOP being deleted doesn't exist

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**TOP being deleted doesn't exist** If a TOP event relating to a referral is submitted with an update status of 'delete', a check is made on the database to confirm that the TOP event to be deleted exists for that referral. If a TOP event for that referral with the same TOP interview date is not found, the 'delete' TOP event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54210 – Discharge being deleted doesn't exist

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Discharge being deleted doesn't exist** If a discharge event relating to a referral is submitted with an update status of 'delete', a check is made on the database to confirm that the discharge event to be deleted exists for that referral. If a discharge event for that referral with the same Date Contact Ended is not found, the 'delete' discharge event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54211 – Referral Details with no matching Client Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Referral Details with no matching Client Details** When Referral Details are being submitted for the first time, the submission must also include the Client Details element. If the Client Details are incomplete when the initial Referral Details are submitted, they can be resubmitted with the Assessment Details. If Referral Details are submitted without Client Details, a check is made on the database to confirm that Client Details are already held for that referral. If no Client Details are found, or a 'delete' is present in the file for the same referral, the referral will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54212 – Assessment, Treatment, TOP or Discharge Details with deleted Referral Details

Data Dictionary Definition	n/a
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Assessment, Treatment, TOP or Discharge Details with deleted Referral Details** Assessment, Treatment, TOP or Discharge elements must have an associated Referral element. These elements cannot be submitted together with a 'delete' Referral element. If 'new' or 'update' Assessment, Treatment, TOP or Discharge details elements are found in the data submission with a 'delete' referral details element they will be rejected during the load and will not be processed through to the NWIS Data Warehouse. The 'delete' referral element will not be rejected and will still be loaded if no other errors are found. When deleting a Referral details element, all other corresponding elements will also be deleted.

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54213 – Invalid Date of Referral

Data Dictionary Definition	Date of Referral
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Date of Referral** Date of Referral must contain a valid date in the correct format (CCYY-MM-DD) and it must also be on or before the date of submission to NWIS. Below are some examples of what will be flagged as invalid. <table><tr><td>**Scenario**</td><td>**Examples**</td></tr><tr><td>Blank Date of Referral</td><td></td></tr><tr><td>Incorrect Format</td><td>2002-27-01</td></tr><tr><td>Alphanumeric Value</td><td>2006-XX-03</td></tr><tr><td>Future Date</td><td>Date of Referral = 2014-05-10 Submission Date = 2014-05-09</td></tr></table> If an invalid value is submitted, the Referral event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54214 – Invalid Date of Birth

Data Dictionary Definition	Date of Birth
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Date of Birth** Date of Birth must contain a valid date in the correct format (CCYY-MM-DD), it must be on or before the date of submission to NWIS, and it must also be after the date which would make the client 125 years old at the Date of Referral. If the Date of Birth is not known, the default date 1811-11-11 can be used. Below are some examples of what will be flagged as invalid. {table below} If an invalid value is submitted, the Client event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

Scenario	Examples
Blank Date of Birth	
Incorrect Format	2002-27-01
Alphanumeric Value	2006-XX-03
Future Date	Date of Birth = 2014-05-10 Submission Date = 2014-05-09
Age 125+	Date of Birth = 1814-05-09 Date of Referral = 2014-05-09

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54215 – Invalid Assessment Date

Data Dictionary Definition	Assessment Date
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Assessment Date** Assessment Date must contain a valid date in the correct format (CCYY-MM-DD) and it must also be on or before the date of submission to NWIS. Below are some examples of what will be flagged as invalid. <table><tr><td>**Scenario**</td><td>**Examples**</td></tr><tr><td>Blank Assessment Date</td><td></td></tr><tr><td>Incorrect Format</td><td>2002-27-01</td></tr><tr><td>Alphanumeric Value</td><td>2006-XX-03</td></tr><tr><td>Future Date</td><td>Assessment Date = 2014-05-10 Submission Date = 2014-05-09</td></tr></table> If an invalid value is submitted, the Assessment event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54216 – Invalid Modality Referral Date

Data Dictionary Definition	Modality Referral Date
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Modality Referral Date** Modality Referral Date must contain a valid date in the correct format (CCYY-MM-DD) and it must also be on or before the date of submission to NWIS. Below are some examples of what will be flagged as invalid. *(see table below)* If an invalid value is submitted, the Treatment Modality event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

Scenario	Examples
Blank Modality Referral Date	
Incorrect Format	2002-27-01
Alphanumeric Value	2006-XX-03
Future Date	Modality Referral Date = 2014-05-10 Submission Date = 2014-05-09

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54217 – Invalid TOP Interview Date

Data Dictionary Definition	TOP Interview Date
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid TOP Interview Date** TOP Interview Date must contain a valid date in the correct format (CCYY-MM-DD) and it must also be on or before the date of submission to NWIS. Below are some examples of what will be flagged as invalid.

Scenario	Examples
Blank TOP Interview Date	
Incorrect Format	2002-27-01
Alphanumeric Value	2006-XX-03
Future Date	TOP Interview Date = 2014-05-10 Submission Date = 2014-05-09

If an invalid value is submitted, the TOP Details event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54218 – Invalid Gender

Data Dictionary Definition	Gender
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Gender** A Client Details event must contain a valid value for Gender as described in the NHS Wales Data Dictionary. Below are some examples of what will be flagged as invalid. <table><tr><th>Scenario</th><th>Examples</th></tr><tr><td>Blank Gender</td><td></td></tr><tr><td>Invalid value</td><td>0, 4, M, F</td></tr></table> If an invalid value is submitted, the Client Details event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54219 – Invalid Agency Code

Data Dictionary Definition	Agency Code
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Agency Code** Agency Code must contain a valid national Agency or Practice code. A list of these can be found on the National Reference Data Service (NRDS) website at http://nrds.cymru.nhs.uk Below are some examples of what will be flagged as invalid.

Scenario	Examples
Blank Agency Code	
Invalid value	000000, 999999, xxxxxx

If an invalid value is submitted, the Referral Details event will be rejected during the load and will not be processed through to the NWIS Data Warehouse. |

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54220 – Invalid Treatment Modality

Data Dictionary Definition	Treatment Modality
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Invalid Treatment Modality** Treatment Modality must contain a valid value as described in the NHS Wales Data Dictionary. Below are some examples of what will be flagged as invalid. <table><tr><td>**Scenario**</td><td>**Examples**</td></tr><tr><td>Blank Treatment Modality</td><td></td></tr><tr><td>Invalid value</td><td>0, 1, 00, 99</td></tr></table> If an invalid value is submitted, the Treatment Modality event will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54221 – Different Person Key against the same Agency Client Number

Data Dictionary Definition	Agency Client Number First Letter of Surname First Letter of Forename Date of Birth Gender
Check Type	Data Load Check
Change History	n/a
Validation Rule	**Different Person Key against the same Agency Client Number** The Agency Client Number should be unique to each client at a particular Agency or Practice. If a data submission contains the same Client Number for an Agency more than once, the Person Key details must match. The Person Key is made up from the following data items: - First Letter of Surname - First Letter of Forename - Date of Birth - Gender If invalid values are submitted, the Client Details events will be rejected during the load and will not be processed through to the NWIS Data Warehouse.

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54300 – Different Agency Client Number against the same Person Key

Data Dictionary Definition	Agency Client Number First Letter of Surname First Letter of Forename Date of Birth Gender
Check Type	Data Validity Check
Change History	n/a
Validation Rule	**Different Agency Client Number against the same Person Key** The Agency Client Number should be unique to each client at a particular Agency or Practice. It is possible for more than one client to share the same Person Key, but these are highlighted to allow such records to be identified and checked. The Person Key is made up from the following data items: - First Letter of Surname - First Letter of Forename - Date of Birth - Gender

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54301 – Inconsistent Assessment Date / Date of Referral

Data Dictionary Definition	Assessment Date Date of Referral
Check Type	Data Consistency Check
Change History	n/a
Validation Rule	**Inconsistent Assessment Date / Date of Referral** The Date of Referral must not be after the Assessment Date. Otherwise, the record will be flagged as inconsistent. Below is an example of what will be flagged as inconsistent. | Scenario	Example
The Date of Referral is after the Assessment Date	Date of Referral = 2012-02-01 Assessment Date = 2012-01-30	

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54302 – Inconsistent Modality Referral Date / Assessment Date

Data Dictionary Definition	Modality Referral Date Assessment Date
Check Type	Data Consistency Check
Change History	n/a
Validation Rule	**Inconsistent Modality Referral Date / Assessment Date** The Assessment Date must not be after the Modality Referral Date. Otherwise, the record will be flagged as inconsistent. Below is an example of what will be flagged as inconsistent. <table><tr><td>**Scenario**</td><td>**Example**</td></tr><tr><td>The Assessment Date is after the Modality Referral Date</td><td>Assessment Date = 2012-02-01 Modality Referral Date = 2012-01-30</td></tr></table>

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54303 – Inconsistent Modality Referral Date / Date of Referral

Data Dictionary Definition	Modality Referral Date Date of Referral
Check Type	Data Consistency Check
Change History	n/a
Validation Rule	**Inconsistent Modality Referral Date / Date of Referral** The Date of Referral must not be after the Modality Referral Date. Otherwise, the record will be flagged as inconsistent. Below is an example of what will be flagged as inconsistent.

Scenario	Example
The Date of Referral is after the Modality Referral Date	Date of Referral = 2012-02-01 Modality Referral Date = 2012-01-30

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IMPORTANT:

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VASS Check Descriptions: http://www.nwdss.wales.nhs.uk/

54304 – Inconsistent TOP Interview Date / Date of Referral

Data Dictionary Definition	TOP Interview Date Date of Referral
Check Type	Data Consistency Check
Change History	n/a
Validation Rule	**Inconsistent TOP Interview Date / Date of Referral** The Date of Referral must not be after the TOP Interview Date. Otherwise, the record will be flagged as inconsistent. Below is an example of what will be flagged as inconsistent. <table><tr><td>**Scenario**</td><td>**Example**</td></tr><tr><td>The Date of Referral is after the TOP Interview Date</td><td>Date of Referral = 2012-02-01 TOP Interview Date = 2012-01-30</td></tr></table>

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54305 – Change of Assessment Date

Data Dictionary Definition	Assessment Date
Check Type	Data Validity Check
Change History	n/a
Validation Rule	**Change of Assessment Date** The Assessment Date should not be changed by resubmitting the Assessment Details alone. To change the Assessment Date, the new Assessment Details should be accompanied by a corresponding deletion record to remove the existing Assessment Details. Example: Existing Assessment Details <table><tr><td>**Update Status**</td><td>**Assessment Date**</td></tr><tr><td>Add</td><td>2012-01-30</td></tr></table> New Assessment Details <table><tr><td>**Update Status**</td><td>**Assessment Date**</td></tr><tr><td>Add</td><td>2012-02-01</td></tr></table> Deletion record <table><tr><td>**Update Status**</td><td>**Assessment Date**</td></tr><tr><td>Delete</td><td>2012-01-30</td></tr></table> Resubmission must contain <table><tr><td>**Update Status**</td><td>**Assessment Date**</td></tr><tr><td>Delete</td><td>2012-01-30</td></tr><tr><td>Add</td><td>2012-02-01</td></tr></table>

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54306 – Change of Date Contact Ended

Data Dictionary Definition	Date Contact Ended
Check Type	Data Validity Check
Change History	n/a
Validation Rule	**Change of Date Contact Ended** The Date Contact Ended should not be changed by resubmitting the Discharge Details alone. To change the Date Contact Ended, the new Discharge Details should be accompanied by a corresponding deletion record to remove the existing Discharge Details. Example: Existing Discharge Details *(see table below)* New Discharge Details *(see table below)* Deletion record *(see table below)* Resubmission must contain *(see table below)*

Existing Discharge Details

Update Status	Date Contact Ended
Add	2012-01-30

New Discharge Details

Update Status	Date Contact Ended
Add	2012-02-01

Deletion record

Update Status	Date Contact Ended
Delete	2012-01-30

Resubmission must contain

Update Status	Date Contact Ended
Delete	2012-01-30
Add	2012-02-01

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