
National Patient Information Reporting System: National Data Warehouse

NDW Data Quality Mart

User Guide

Version 1.0

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Department of Health and
Human Services

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Version Control

Version	Date	Notes
1.0	April 2008	Initial version. FY08 contract deliverable, D1.9.3 Approved April 11, 2008

Contact Information

If you have any questions or comments regarding the NDW Data Quality Mart, please contact the NPIRS Help Desk at the following e-mail address:

[IHS - OITHELP-NPIRS \(IHS\)](mailto:IHS-OITHELP-NPIRS@IHS)

Introduction

The National Data Warehouse (NDW) **Data Quality Mart (DQM)** was developed by NPIRS to provide feedback to the suppliers of data to the NDW, related to the detection of critical and non-critical errors affecting the quality and completeness of their data.

The NDW Data Quality Mart is a collection of easily accessible web-based reports, which provide the user a quantified picture of problems with their data, as well as enough detail to allow record level identification of problematic data. Note that any detail displayed is within the boundaries of currently required laws and regulations, such as the Health Insurance Portability and Accountability Act (HIPAA).

Since producing user population and workload reports is a core function of NPIRS, the first release of the Data Quality Mart focuses on data errors that have or could have an influence on either report. Due to their importance, these data errors will be labeled as NDW critical data errors.

Like any other structure within NDW, the future growth of the Data Quality Mart will be gradual, and it will evolve around the needs of its users. Because the first release of this data mart is tightly connected with user population and workload matters, future releases will concentrate on data quality issues related to clinical data and other data quality issues important to NDW users.

All Data Quality Mart reporting is limited to data already loaded and stored in the NDW. Reports related to problems loading received data into the NDW database are provided by the NDW Export Tracking Mart.

Accessing the Data Quality Mart

The IHS National Data Warehouse web site is available to those who have access to the IHS intranet. Access to the NDW Data Quality Mart. requires a logon account. The current required logon account is the one used to access the User Population/Workload reports.

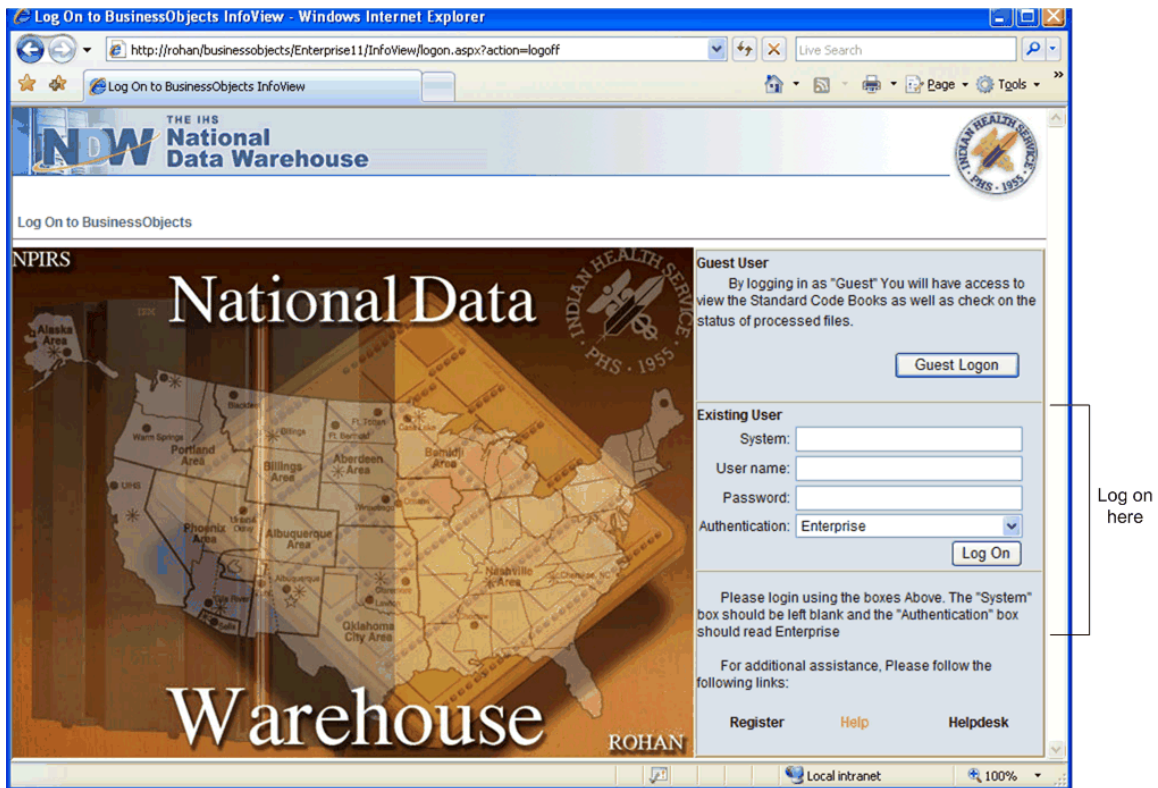
Logging on to the NDW Intranet Web Site

To log on to the NDW web site, follow these steps:

1. Go to the following intranet web site:

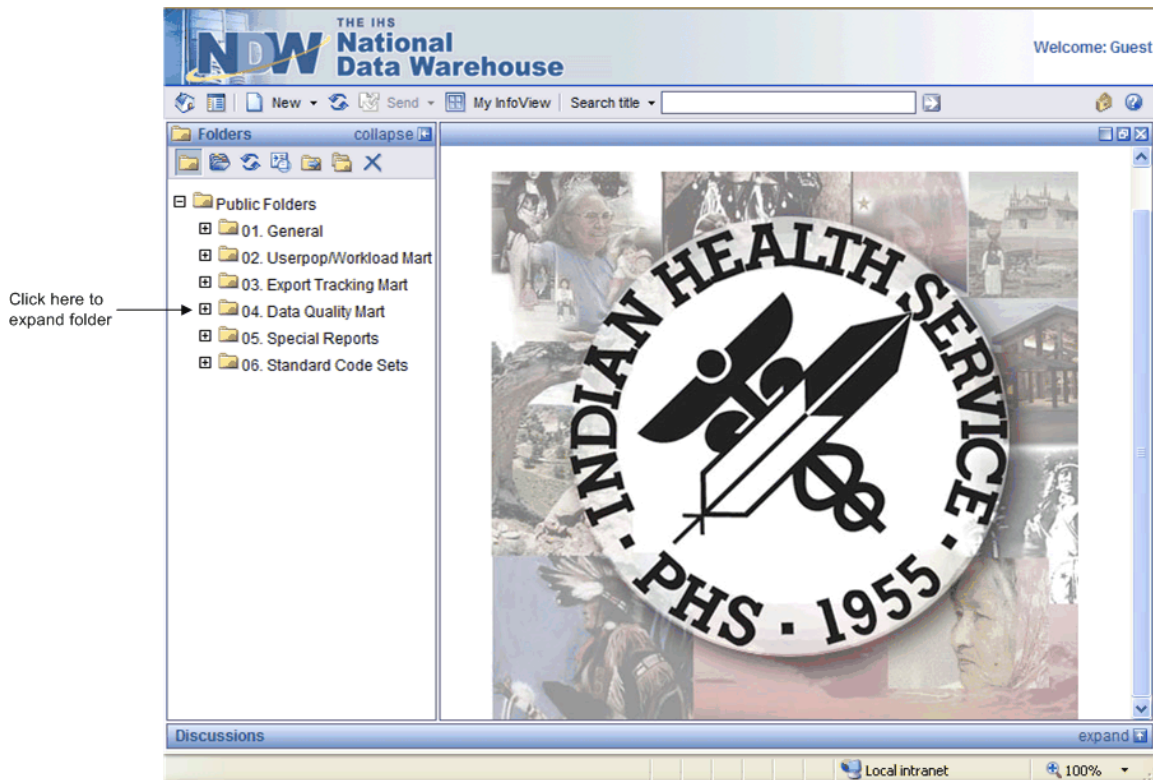
<http://rohan.d1.na.ihs.gov/businessobjects/enterprise11/InfoView/logon.aspx>

2. Enter your **User name** and **Password** and click the **Log On** button.



On a successful logon, the web site displays a Folders pane and a Details pane.

3. In the Folders pane, expand the **Public Folders** to display the folder tree.
4. Click the **Data Quality Mart** folder to display its sub-folders.



About the Data Quality Mart Folders

The Data Quality Mart sub-folders are organized like NDW Userpop/Workload Data Mart, where

- There is a separate folder for each Area, and
- Each Area is allowed to view only reports in their folder.

Additionally, all logon accounts include access to the User Documentation folder.

Data Quality Reports Schedule

The Data Quality reports are run per the schedule posted in the User Documentation folder. Reports will also be run on request.

To request a report run, e-mail request to the NPIRS Help Desk at:

[IHS - OITHELP-NPIRS \(IHS\)](mailto:IHS-OITHELP-NPIRS@IHS)

Data Quality Mart Organization

Currently, the Data Quality Mart provides information about critical data errors. Critical errors are defined as those errors and/or omissions that affect the accuracy of User Population (UP) and Workload (WL) reporting and verification processes. They include data errors that directly influence UP/WL reported numbers, as well as data errors and omissions that could potentially influence WL/UP reported numbers.

Data Quality Mart reports are organized into two categories:

- Reports related to User Population
- Reports related to Workload

Viewing User Population Related Reports

The Data Quality Mart reports related to User Population are located in the **UP Related** folder. Currently there are two reports:

- 1) DQM-UP1 Registrations Not Included on User Population Reports
- 2) DQM-UP2 Registrations Potentially Countable on UP Reports

These reports should help sending sites identify registration records that are not included on the User Population (UP) reports, as well as registration records that potentially could be considered as countable¹ on the UP reports.

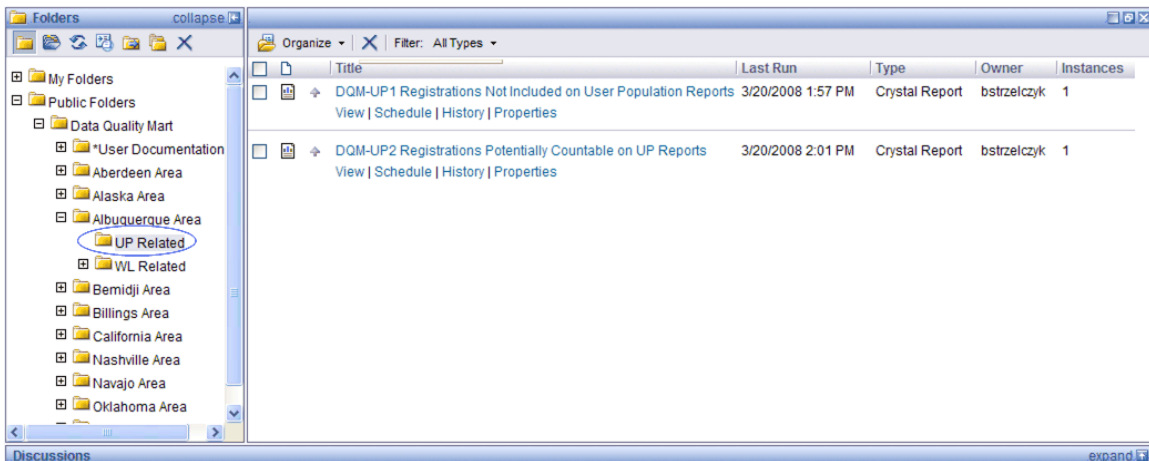
¹ Registrants considered as countable must be American Indians or Alaska Natives who reside in selected service units (HQ determined, usually non-Urban) within the Area from which the registration record was received and must not reside in a NON-Service Unit (00).

To view a User Population related report,

1. In the Folders pane, expand your Area folder and click the **UP Related** folder.

The reports appear in the Details pane.

2. To view
 - the most recent version of the report, click the report name.
 - a previous version of the report, click History.



DQM-UP1 Registrations Not Included on User Population Report

According to business rules established by IHS Headquarters, Division of Program Statistics (DPS), to be included on User Population reports a registration record must have, at minimum, the following data elements:

- Last Name
- First or Middle Name
- Chart Number
- Valid Chart Facility

For each Area and exporting Facility, the **Registrations Not Included on User Population Reports** show registration records that will not be included on the User Population reports because there is a problem with one or more of these required data elements.

These reports provide a summary view of the extent of this problem and enough detail to correct the problem. When corrected registration records have been received by NPIRS, the numbers on these reports should disappear, and the Area/Facility can be confident that all their registrations will be included on the next run of the User Population reports.

Viewing the Summary Report

The main view provides a quantified summary of the registrations, showing total numbers of registrations not included, as well as numbers affected by each of the required data elements.

The following figure shows an example of the summarized view of a DMQ-UP1 Registrations Not Included on User Population report.

NPIRS		DATA QUALITY MART				
Registrations Not Included on User Population Reports						
Double click the blue to view the details						Page 1 of 1
AREA: HAWAII						Report Run Date: 03/19/2008
Exporting Facility	Total # of Registrations Not Included	Chart Facility Missing/Invalid	Chart Number Missing	Last Name Missing	First and Middle Name Missing	
912211 KAUAI HEALTH CENTER	112	2 / 3	0	0	107	
912230 LANAI HEALTH CENTER	1	0 / 0	0	1	0	
912310 MAUI HEALTH CENTER	158	0 / 158	0	0	0	
912810 MOLOKAI HEALTH CENTER	2	0 / 0	0	2	0	
912851 OAHU HEALTH LOCATION	1	0 / 0	0	0	1	
AREA Total:	274	2 / 161	0	3	108	

Column Header	Description
Exporting Facility	Code and Facility Name of the exported registration data.
Total # of Registrations Not Included	Total count of registration records that will not be included on UP reports.
Chart Facility Missing/Invalid	Number of registration records with no Chart Facility or with the Chart Facility not found in the IHS Standard Code Book.
Chart Number Missing	Number of registration records with no a Chart Number.
Last Name Missing	Number of registration records with no patient Last Name
First and Middle Name Missing	Number of registration records with no patient First and Middle Name.

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Exporting Facility** (blue font), displays the details of the selected report.

The following figure shows an example of the detailed view of a DMQ-UP1 Registrations Not Included on User Population report.

Registrations Not Included on User Population Reports				
DETAIL for: 912211 KAUAI HEALTH CENTER				
Registration Code	Chart Facility	Chart Number	Last Name	First and Middle Name
99874000017099	919910 INVALID	EXIST	EXIST	EXIST
99874000017102	919910 INVALID	EXIST	EXIST	EXIST
99874000017104	919910 INVALID	EXIST	EXIST	EXIST
99874000017105	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017113	MISSING	EXIST	EXIST	EXIST
99874000017114	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017118	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017119	MISSING	EXIST	EXIST	MISSING
99874000017120	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017121	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017122	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017123	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017125	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017181	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017183	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017184	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017199	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING
99874000017214	912211 KAUAI HEALTH CENTER	EXIST	EXIST	MISSING

Column Header	Description
Registration Code	The unique registration record identifier generated by the source system, comprised of the 5-digit exporting database identifier concatenated with the zero-filled IEN (Internal Entry Number) of the RPMS registration record.
Chart Facility	Record level information about the chart facility validation. The Chart Facility Code and Facility Name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Chart Number	Record level information about the patient chart number. EXIST indicates that there is a chart number for the registration record. MISSING (red, bold font) indicates that the chart number is missing.

Column Header	Description
Last Name	Record level information about the Last Name of the patient. EXIST indicates that there is a chart number for the registration record. MISSING (red, bold font) indicates no chart number.
First and Middle Name	Record level information about the First and Middle Name of a patient. EXIST indicates that the registration record has a First Name or Middle Name. MISSING (red, bold font) indicates that both of these name fields are missing.

DQM-UP2 Registrations Potentially Countable on UP Report

Although the registrants are included on the Area's User Population report, they may not be credited to the User Population counts for that Area. Registrants considered as countable must be American Indians or Alaska Natives who reside in selected service units (HQ determined, usually non-Urban) within the Area from which the registration record was received and must not reside in a Non-Service Unit (00).

For each Area and exporting Facility, the **Registrations Potentially Countable on UP Report** shows registrations that potentially could be considered as countable on the User Population reports but are not, because essential elements related to a patient's residency and/or related to a patient's American Indian/Alaska Native (AI/AN) status is missing or invalid.

This report provides a picture of the extent of this problem and enough detail to correct the problem. When corrected registration records have been received by NPIRS, the numbers on this report should get lower, giving the Area confidence that these fixed registrations may contribute to the Area's User Population counts.

Viewing the Summary Report

The main view provides a quantified summary of potentially countable registrations, showing total numbers, as well numbers related to patient residency and patient AI/AN status.

The following figure shows an example of the summarized view of a DMQ-UP2 Registrations Potentially Countable on User Population report.

NPIRS		DATA QUALITY MART			
Registrations Potentially Countable on User Population Reports					
Double click the blue to view the details			Page 1 of 1 Report Run Date:03/19/2008		
AREA: HAWAII		Patient Residency		Patient AI/AN Status	
Exporting Facility	Total # of Potentially Countable Registrations	Community Missing/Invalid	Tribe Missing/Invalid	Beneficiary Missing/Invalid	Blood Quantum Missing/Invalid
912211 KAUAI HEALTH CENTER	180	63 / 115	3 / 2	2 / 2	3 / 1
912230 LUNAI RIVER FALLS HC	33	0 / 31	2 / 0	0 / 0	0 / 0
912310 MAUI HEALTH CENTER	171	28 / 17	126 / 0	0 / 0	0 / 0
912810 MOLOKAI HEALTH CENTER	52	3 / 45	4 / 0	0 / 0	0 / 0
912851 OAHU HEALTH LOCATION	2	0 / 2	0 / 0	0 / 0	0 / 0
Area Total:	438	94 / 210	132 / 2	2 / 2	2 / 2

Column Header	Description
Exporting Facility	Code and Facility Name of the exported registration.
Total # of Potentially Countable Registrations	Total count of registration records that potentially could be counted on UP Reports.
Community Missing/Invalid	Number of registration records with no community of residence code or with a code that does not exist in the IHS Standard Code Book at the time this report was run.
Tribe Missing/Invalid	Number of registration records with no tribal code or with a code that does not exist in the IHS Standard Code Book at the time this report was run.
Beneficiary Missing/Invalid	Number of registration records with no beneficiary code or with a code that does not exist in the IHS Standard Code Book at the time this report was run.
Blood Quantum Missing/Invalid	Number of registration records with no blood quantum code or with a code that does not exist in the IHS Standard Code Book at the time this report was run.

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Exporting Facility** (blue font), displays the details of the selected report.

The following figure shows an example of the detailed view of a DMQ-UP2 Registrations Potentially Countable on UP report.

Registrations Potentially Countable on User Population Reports				
DETAIL for: 912211 KAUAI HEALTH CENTER				
Registration Code	Patient Residency		Patient AI/AN Status	
	Community	Tribe	Beneficiary	Blood Quantum
99874000022131	1671001 INVALID	945 KASHUB TRIBE	VALID	VALID
99874000022239	6605888 BIG ISLAND BAY	499 INVALID	VALID	VALID
99874000022284	MISSING	999 INDIAN - TRIBE UNSPECIFIED	INVALID	MISSING
99874000022324	1671001 INVALID	920 GORAL NATION	VALID	VALID
99874000022404	5568993 INVALID	999 INDIAN - TRIBE UNSPECIFIED	VALID	VALID
99874000022705	1671001 INVALID	945 KASHUB TRIBE	VALID	VALID
99874000022733	2899927 INVALID	999 INDIAN - TRIBE UNSPECIFIED	VALID	VALID
99874000022822	MISSING	945 KASUB TRIBE	VALID	VALID
99874000022830	1671001 INVALID	945 KASHUB TRIBE	VALID	VALID
99874000022865	6641993 WAIKOLOA BEACH	998 OTHER	MISSING	MISSING
99874000022903	MISSING	945 KASHUB NATION	VALID	VALID
99874000022921	1671001 INVALID	920 GORAL NATION	VALID	VALID
99874000022966	1671001 INVALID	945 KASHUB TRIBE	VALID	VALID
99874000023073	1671001 INVALID	955 BIG FOOT NATION	VALID	VALID
99874000023074	1671001 INVALID	920 GORAL NATION	VALID	VALID
99874000023089	1671001 INVALID	998 OTHER	VALID	VALID
99874000023112	1671001 INVALID	920 GORAL NATION	VALID	VALID
99874000023182	MISSING	MISSING	MISSING	MISSING
99874000023215	MISSING	955 BIG FOOT NATION	VALID	VALID
99874000023275	MISSING	945 KASHUB TRIBE	VALID	VALID
99874000023286	MISSING	955 BIG FOOT NATION	VALID	VALID
99874000023290	MISSING	945 KASHUB TRIBE	VALID	VALID
99874000023291	MISSING	945 KASHUB TRIBE	INVALID	VALID

Column Header	Description
Registration Code	The unique registration record identifier generated by the source system, comprised of the 5-digit exporting database identifier concatenated with the zero-filled IEN (Internal Entry Number) of the RPMS registration record.
Community	Record level information about community validation. The community code and community name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.
Tribe	Record level information about tribal code validation. The tribal code and tribe name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Beneficiary	Record level information about beneficiary code validation. VALID indicates a valid code. INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code. If the tribal code equals 998 or 999, red, bold font is used to indicate a critical error.

Column Header	Description
Blood Quantum	Record level information about blood quantum code validation. VALID indicates a valid code. INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code. If the tribal code equals 998 or 999, red, bold font is used to indicate a critical error.

Viewing Workload Related Reports

Each encounter record received by NPIRS is evaluated for its workload reportability using business rules established by IHS Headquarters, Division of Program Statistics (DPS). Based on these rules, some encounter records will never be workload reportable. However, some records are marked non-workload reportable because deciding data elements are missing or invalid. Also, some encounter records marked workload reportable will not appear on workload reports because data elements for selecting records for these reports are missing or invalid.

The Data Quality Mart reports related to Workload are located in **WL Related** folder. Currently there are five reports in the WL Related DQM folder:

- 1) DQM-WL1 WL Reportable Visits Not Included on Workload Reports
- 2) DQM-WL2APC Potentially Workload Reportable Ambulatory Visits
- 3) DQM-WL2CON Potentially Workload Reportable Contract Visits
- 4) DQM-WL2DEN Potentially Workload Reportable Dental Visits
- 5) DQM-WL2INP Potentially Workload Reportable Inpatient Visits

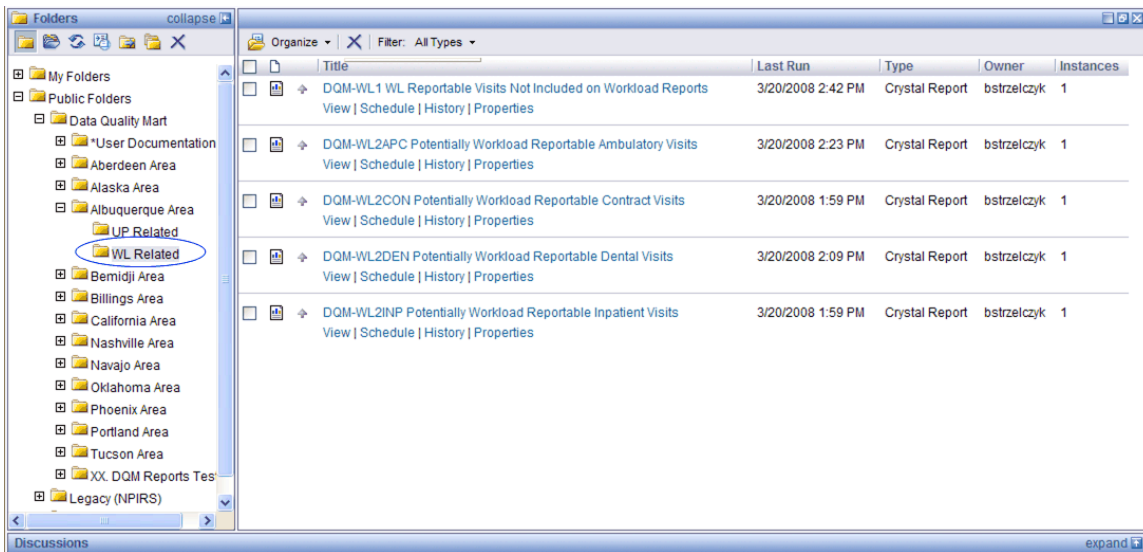
Each report provides a summary view of the extent of the problem and enough detail to correct the problem. These reports should help sending sites identify workload reportable visits that are not included on the Workload reports, as well as visits that potentially could be workload reportable and consequently included on workload reports.

To display a Workload report,

1. In the Folders pane, expand your Area folder and click the **WL Related** folder.

The reports appear in the Details pane.

2. To view
 - the most recent version of the report, click the report name.
 - a previous version of the report, click History.



DQM-WL1 WL Reportable Visits Not Included on Workload Report

For each Area and exporting facility or export file type, the **WL Reportable Visits Not Included on Workload Reports** show all visits (APC, Inpatient, Dental, Contract Inpatient, Contract Outpatient) marked as workload reportable but not included on the Workload reports, because the date field used by workload verification reports is missing or invalid, or the facility code used by these reports is missing or invalid. Note that these reports look at all visits, with no restrictions for timeframe.

Viewing the Summary Report

The main view provides a quantified summary of the visits, showing total numbers of workload reportable visits not included on workload verification reports, as well as the number of visits affected by problems related to facility validation or date validation.

The following figure shows an example of the summarized view of the DMQ-WL1 WL Reportable Visits Not Included on Workload report.

NPIRS		DATA QUALITY MART			
WL Reportable Visits Not Included on Workload Reports					Page 1 of 1
<input #"="" type="text" value="Double click the blue to view the details"/>		Report Run Date: 03/19/2008			
AREA: HAWAII		Facility Validation		Date Validation	
Exporting Facility / Export File Type	Total # of WLR Visits not Included	Location of Encounter Missing / Invalid	Authorizing Missing / Invalid	Service Date Missing / Invalid	Discharge Date Missing / Invalid
CHS FI - STATRECS	5,316		0 / 0	5,315 / 1	
HL7 912601 BIG ISLAND HOSPITAL	54	5 / 1		2 / 2	48 / 0
HL7 912211 KAUAI HEALTH CENTER	3		0 / 0	0 / 2	0 / 1
Area Total:	5,327	0 / 0	0 / 0	5,315 / 3	2 / 1

Column Header	Description
Exporting Facility/Export File Type	Code and Facility Name of the exported registration data or export file type. Depending on export file type received by NPIRS, the exporting facility may not be available. When it is not available, the export file type is provided for tracking purposes.
Total # of WLR Visits Not Included	Total count of workload reportable visits that are not included on any of the Workload reports, because the date field that these reports are based is missing, could not be calculated, or falls beyond the end date of the current fiscal year, or the required facility code (location of encounter for direct visits or authorizing facility for contract visits) is missing or invalid (does not exist in the IHS Standard Code Book).
Location of Encounter Missing/Invalid	Number of direct workload reportable visits with no location of encounter facility code or with a location of encounter facility code not found in the IHS Standard Code Book.
Authorizing Missing/Invalid	Number of contract workload reportable visits with no authorizing facility code or with an authorizing facility code not found in the IHS Standard Code Book.

Column Header	Description
Service Date Missing/Invalid	Number of workload reportable visits with date of service or admission date missing or invalid. The service date is counted as invalid when it falls before 01/01/1955 or beyond the end date of the current fiscal year. In the case of inpatient visits, the admission date is invalid when it falls after the discharge date
Discharge Date Missing/Invalid	Number of workload reportable inpatient visits with discharge date missing or invalid. The discharge date is counted as invalid when it falls before 01/01/1955 or beyond the end date of the current fiscal year, or it falls before the admission date.

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Exporting Facility/Export File Type** (blue font), displays the details of the selected report.

The following figure shows an example of a detailed view of the DMQ-WL1 WL Reportable Visits Not Included on Workload report.

WL Reportable Visits Not Included on Workload Reports						
DETAIL for : HL7 912601 BIG ISLAND HO						
Encounter Code or Export File Name	Visit Type	Authorization Number	LOE Facility	Authorizing Facility	Service Date	Discharge Date
993810000744268	Inpatient		912601 BIG ISLAND HO		1/24/2005	MISSING
993810000897586	Inpatient		912601 BIG ISLAND HO		8/22/2005	MISSING
993810000897636	Inpatient		912601 BIG ISLAND HO		7/19/2005	MISSING
993810000897972	Inpatient		MISSING		7/8/2005	MISSING
993810000897999	Inpatient		MISSING		7/11/2005	MISSING
993810000898770	Inpatient		912601 BIG ISLAND HO		4/7/2006	MISSING
993810000899506	Inpatient		912601 BIG ISLAND HO		4/7/2006	MISSING
993810000899788	Inpatient		912689 INVALID		7/8/2005	8/1/2005
993810000899841	Inpatient		912601 BIG ISLAND HO		4/7/2006	MISSING
993810000900977	Inpatient		912601 BIG ISLAND HO		7/11/2005	MISSING
993810000900988	Inpatient		912601 BIG ISLAND HO		MISSING	MISSING
993810000900995	Inpatient		912601 BIG ISLAND HO		7/8/2005	MISSING
993810000901006	Inpatient		912601 BIG ISLAND HO		9/6/2005	MISSING
993810000901045	Inpatient		912601 BIG ISLAND HO		9/6/2005	MISSING
993810000901049	Inpatient		912601 BIG ISLAND HO		8/13/2005	MISSING
993810000921014	Inpatient		912601 BIG ISLAND HO		7/1/2006	MISSING
993810000921019	Ambulatory		912601 BIG ISLAND HO		MISSING	MISSING
993810001463500	Ambulatory		912601 BIG ISLAND HO		8/10/1950	INVALID
993810001690372	Inpatient		912601 BIG ISLAND HO		8/2/2006	MISSING
993810001717611	Inpatient		912601 BIG ISLAND HO		7/16/2007	MISSING
993810001733489	Inpatient		912601 BIG ISLAND HO		12/7/2008	INVALID
993810001733497	Inpatient		912601 BIG ISLAND HO		2/6/2007	MISSING

Column Header	Description
Encounter Code or Export File Name	<p>The unique encounter record identifier generated by the source system is displayed when available (HL7 and SFE files).</p> <p>The unique encounter code consists of the 5-digit exporting database identifier concatenated with zero filled IEN (Internal Entry Number) of the RPMS PCC record, and should allow record-level tracking (at the sending site) of these visits.</p> <p>If the unique encounter code is not available (CHSSTAT, STATRECS, DENTSTAT files), the export file name is displayed. The export file name, in combination with other information under headings like Authorization Number, Authorizing Facility, should allow record-level tracking of these visits.</p>
Visit Type	Information about type of visit having problems.
Authorization Number	The authorization number for contract visits only; it can be used in conjunction with the export file name and authorizing facility to identify these visit (purchase order) records at the source system.
LOE Facility	<p>Record-level information for direct visits only, about location of encounter facility validation. The location of encounter facility code and facility name appears only when the code is valid.</p> <p>INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.</p>
Authorizing Facility	<p>Record-level information for contract visits only, about authorizing facility validation. The authorizing facility code and facility name appears only when the code is valid.</p> <p>INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.</p>
Service Date	<p>Record-level information about date of service (admission date for inpatient visits) validation.</p> <p>The service date is considered invalid when it falls before 01/01/1955 or beyond the end date of the current fiscal year. In the case of inpatient visits, an admission that date falls after discharge date is considered invalid.</p> <p>Valid date value is displayed in regular font.</p> <p>INVALID (red, bold font) indicates an invalid date MISSING (red, bold font) indicates no date.</p>

Column Header	Description
Discharge Date	<p>Record level information about discharge date validation.</p> <p>The discharge date is considered invalid when it falls before 01/01/1955 or beyond the end date of the current fiscal year, or it falls before admission date.</p> <p>Valid date value is displayed in regular font.</p> <p>INVALID (red, bold font) indicates an invalid date</p> <p>MISSING (red, bold font) indicates no date.</p>

DQM-WL2APC Potentially Workload Reportable Ambulatory Visits

For each Area and location of encounter facility, the **Potentially Workload Reportable Ambulatory Visits** reports show ambulatory visits within a specified date range that potentially could be workload reportable but are not, because essential data elements that decide ambulatory visit workload reportability status are either missing or have values outside IHS proprietary code sets. These data elements include:

- 1A Facility Designation Flag
- Service type
- Service Category
- Provider Code
- Clinic Code
- Diagnosis Code (new requirement, starting with FY 2008)

Viewing the Summary Report

The main view displays a quantified summary of potentially workload reportable ambulatory visits, showing total numbers of these visits as well as the number of visits affected by problems related to these essential data elements.

The following figure shows an example of the summarized view of the DMQ-WL2APC Potentially Workload Reportable Ambulatory Visits report.

NPIRS		DATA QUALITY MART						
Potentially Workload Reportable Ambulatory Visits by Location of Encounter								
10/01/2007 THRU 09/30/2008		Page 1 of 1						
Double click the blue to view the details		Report Run Date: 03/19/2008						
AREA: HAWAII								
Location of Encounter Facility	Total # of Potentially WLR Visits	Non APC Facility	Service Type Missing/Invalid	Service Category Missing/Invalid	Provider Missing/Invalid	Clinic Missing/Invalid	Diagnosis Missing	
912601 BIG ISLAND HOSPITAL	2,682	0	0 / 0	0 / 0	2,635 / 5	235 / 2	53	
912211 KAUAI HEALTH CENTER	8	0	0 / 0	0 / 0	0 / 0	0 / 0	8	
912230 LANAI HEALTH CENTER	112	0	0 / 0	0 / 0	111 / 0	102 / 0	1	
912310 MAUI HEALTH CENTER	33,554	0	0 / 0	0 / 0	33,540 / 0	11,076 / 0	33	
912810 MOLOKAI HEALTH CENTER	3,073	0	0 / 0	0 / 0	3,050 / 0	2 / 0	40	
912851 OAHU HEALTH LOCATION	81	0	0 / 0	0 / 0	78 / 0	79 / 0	1	
AREA Total:	39,510	0	0 / 0	0 / 0	39,414 / 5	11,494 / 2	136	

Column Header	Description
Location of Encounter Facility	Location of encounter facility code and name.
Total # of Potentially WLR Visits	Total count of ambulatory visits that potentially could be workload reportable.
Non APC Facility	Number of ambulatory visits currently marked as not workload reportable because location of encounter facility is not designated as a 1A facility.
Service Type Missing/Invalid	Number of ambulatory visits marked as not workload reportable with service type code missing or invalid (not found in the IHS Standard Code Book).
Service Category Missing/Invalid	Number of ambulatory visits marked as not workload reportable with service category code missing or invalid (not found in the IHS Standard Code Book).
Provider Missing/Invalid	Number of ambulatory visits marked as not workload reportable with provider code missing or invalid (not found in the IHS Standard Code Book).
Clinic Missing/Invalid	Number of ambulatory visits marked as not workload reportable with clinic code missing or invalid (not found in the IHS Standard Code Book).

Column Header	Description
Diagnosis Missing	Number of ambulatory visits marked as not workload reportable without at least one diagnosis code. Note: This workload requirement applies only to visits starting in FY 2008.

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Location of Encounter Facility** (blue font), displays the details of the selected report.

The following figure shows an example of a detailed view of the DMQ-WL2APC Potentially Workload Reportable Ambulatory Visits report.

Potentially Workload Reportable Ambulatory Visits									
DETAIL for : 912601 BIG ISLAND HOSPITAL								Print Date: 3/19/2008	
Exporting Facility	Encounter Code	Service Date	APC Facility	Service Type	Service Category	Provider	Clinic	Diagnosis	
912601	913810001585823	10/16/2007	YES	I IHS	A AMBULATORY	MISSING	34 PHYSICAL THERAPY	EXIST	
912601	913810001587215	10/18/2007	YES	I IHS	A AMBULATORY	MISSING	MISSING	EXIST	
912601	913810001588630	10/20/2007	YES	I IHS	A AMBULATORY	10 PHYSICAL THERAPIST	E1 INVALID	EXIST	
912601	913810001588644	10/20/2007	YES	I IHS	A AMBULATORY	10 PHYSICAL THERAPIST	E1 INVALID	EXIST	
912601	913810001588653	10/20/2007	YES	I IHS	A AMBULATORY	10 PHYSICAL THERAPIST	E1 INVALID	EXIST	
912601	913810001588929	10/20/2007	YES	I IHS	A AMBULATORY	10 PHYSICAL THERAPIST	MISSING	EXIST	
912601	913810001589627	10/23/2007	YES	I IHS	A AMBULATORY	XX INVALID	80 URGENT CARE	EXIST	
912601	913810001591584	10/25/2007	YES	I IHS	A AMBULATORY	A8 INVALID	39 PHARMACY	EXIST	
912601	913810001592104	10/26/2007	YES	I IHS	A AMBULATORY	XX INVALID	01 GENERAL	EXIST	
912601	913810001593343	10/27/2007	YES	I IHS	A AMBULATORY	MISSING	MISSING	EXIST	
912601	913810001595486	11/1/2007	YES	I IHS	A AMBULATORY	MISSING	39 PHARMACY	EXIST	
912601	913810001595649	11/1/2007	YES	I IHS	A AMBULATORY	MISSING	30 EMERGENCY	EXIST	
912601	913810001595829	11/1/2007	YES	I IHS	A AMBULATORY	MISSING	39 PHARMACY	EXIST	
912601	913810001598383	11/6/2007	YES	I IHS	A AMBULATORY	MISSING	MISSING	EXIST	
912601	913810001599131	11/8/2007	YES	I IHS	A AMBULATORY	MISSING	25 OTHER	EXIST	
912601	913810001599135	11/8/2007	YES	I IHS	A AMBULATORY	MISSING	25 OTHER	EXIST	
912601	913810001601311	11/13/2007	YES	I IHS	A AMBULATORY	MISSING	76 LABORATORY	EXIST	
912601	913810001604026	11/17/2007	YES	I IHS	A AMBULATORY	00 MD	MISSING	EXIST	
912601	913810001605152	11/20/2007	YES	I IHS	A AMBULATORY	MISSING	MISSING	EXIST	
912601	913810001608170	11/27/2007	YES	I IHS	A AMBULATORY	MISSING	MISSING	EXIST	
912601	913810001608501	11/28/2007	YES	I IHS	A AMBULATORY	MISSING	25 OTHER	EXIST	
912601	913810001614830	12/11/2007	YES	I IHS	A AMBULATORY	MISSING	39 PHARMACY	EXIST	
912601	913810001615986	12/12/2007	YES	I IHS	A AMBULATORY	00 MD	06 DIABETIC	MISSING	
912601	913810001615995	12/12/2007	YES	I IHS	A AMBULATORY	MISSING	06 DIABETIC	EXIST	
912601	913810001617176	12/14/2007	YES	I IHS	A AMBULATORY	MISSING	06 DIABETIC	EXIST	

Column Header	Description
Exporting Facility	Code and name of facility exporting this visit record.
Encounter Code	Unique encounter record identifier generated by the source system, composed of the 5-digit exporting database identifier concatenated with the zero filled IEN (Internal Entry Number) of the RPMS PCC record.
Service Date	Date of service for this visit.

Column Header	Description
APC Facility	Whether the location of encounter facility is designated in the Standard Code Book as a 1A facility, where YES (regular font) indicates that it is. NO (red, bold font) indicates that it is not.
Service Type	Record level information about service type code validation. The service type code and its name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Service Category	Record level information about service category code validation. The service category code and its name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Provider	Record level information about provider code validation. The provider code and its name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Clinic	Record level information about clinic code validation. The clinic code and its name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code. MISSING (red, bold font) indicates no code.
Diagnosis	Record level information about presence of at least one diagnosis code. EXIST indicates that there is at least one diagnosis code present for the visit. MISSING (red, bold font) indicates no code.

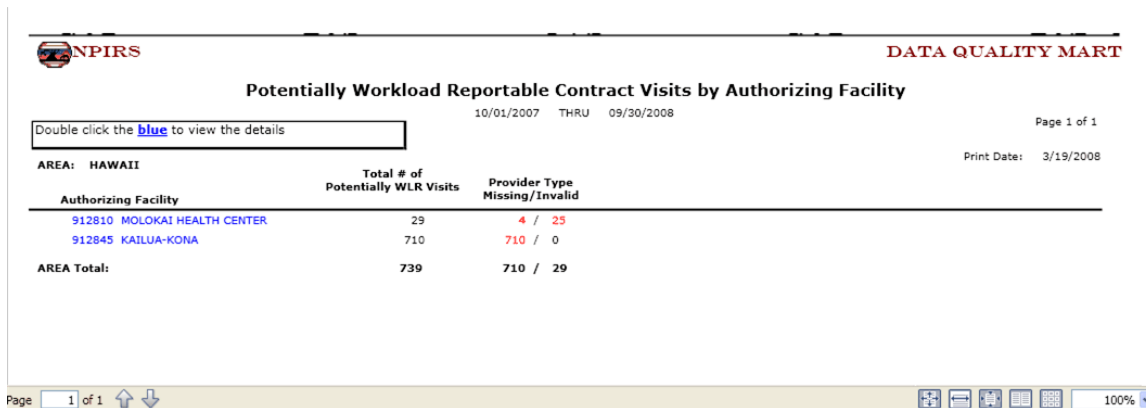
DQM-WL2CON Potentially Workload Reportable Contract Visits

For each Area and authorizing facility, the **Potentially Workload Reportable Contract Visits** reports show contract inpatient and outpatient visits within a specified date range that potentially could be workload reportable but are not, because the essential data element deciding the contract visit workload reportability status is either missing or has a value outside IHS proprietary code sets. For both contract inpatient and outpatient visits, the essential data element is **Provider Type** code.

Viewing the Summary Report

The main view displays a quantified summary of potentially workload reportable contract inpatient and outpatient visits, showing the total number of these visits, as well as the number of visits affected by a missing or invalid provider type code.

The following figure shows an example of the summarized view of the DMQ-WL2CON Potentially Workload Reportable Contract Visits report.



Column Header	Description
Authorizing Facility	Authorizing facility code and name.
Total # of Potentially WLR Visits	Total count of contract inpatient and contract outpatient visits that potentially could be workload reportable.
Provider Type Missing/Invalid	Number of contract visits marked as not workload reportable because the provider type code is missing or invalid (not found in the IHS Standard Code Book).

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Authorizing Facility** (blue font), displays the details of the selected report.

The following figure shows an example of a detailed view of the DMQ-WL2CON Potentially Workload Reportable Contract Visits report.

Potentially Workload Reportable Contract Visits							
DETAIL for : 912810 MOLOKAI HEALTH CENTER							Print Date: 3/19/2008
Exporting Facility	Encounter Code or Export Name	Authorizing Facility	Provider Type	Authorization Number	Service Date	Discharge Date	Visit Type
912810	990240000530575	912810	99 INVALID	07D7700	11/17/2007		CHS Outpatient
912810	990240000530576	912810	99 INVALID	07D7700	11/26/2007		CHS Outpatient
912810	990240000530577	912810	99 INVALID	07D7700	12/17/2007		CHS Outpatient
912810	990240000530578	912810	MISSING	07D7700	10/2/2007		CHS Outpatient
912810	990240000530579	912810	MISSING	07D7700	10/7/2007		CHS Outpatient
912810	990240000530582	912810	MISSING	07D7700	11/20/2007		CHS Outpatient
912810	990240000530583	912810	MISSING	07D7700	11/17/2007		CHS Outpatient
912810	990240000530584	912810	99 INVALID	07D7700	10/16/2007		CHS Outpatient
912810	990240000530588	912810	99 INVALID	07D7700	12/2/2007		CHS Outpatient
912810	990240000530589	912810	99 INVALID	07D7700	12/6/2007		CHS Outpatient
912810	990240000530593	912810	99 INVALID	07D7700	12/12/2007		CHS Outpatient
912810	990240000530594	912810	99 INVALID	07D7700	12/11/2007		CHS Outpatient
912810	990240000533524	912810	99 INVALID	07D7701	1/19/2007		CHS Outpatient
912810	990240000533525	912810	99 INVALID	07D7701	1/19/2007		CHS Outpatient
912810	990240000533526	912810	99 INVALID	07D7701	1/21/2007		CHS Outpatient
912810	990240000533544	912810	99 INVALID	07D7701	10/1/2007		CHS Outpatient
912810	990240000533875	912810	99 INVALID	07D7701	3/10/2007		CHS Outpatient
912810	990240000538332	912810	99 INVALID	07D7701	3/24/2007		CHS Outpatient
912810	990240000538333	912810	99 INVALID	07D7701	3/3/2007		CHS Outpatient
912810	990240000540181	912810	99 INVALID	07D7701	4/13/2007		CHS Outpatient
912810	990240000540182	912810	99 INVALID	07D7701	5/20/2007		CHS Outpatient
912810	990240000540266	912810	99 INVALID	07D7702	5/14/2007		CHS Outpatient
912810	990240000543917	912810	99 INVALID	07D7702	6/20/2007		CHS Outpatient
912810	990240000544013	912810	99 INVALID	07D7702	7/3/2007		CHS Outpatient

Column Header	Description
Exporting Facility	Code and name of facility exporting this visit record, which is displayed only when it is available.
Encounter Code or Export Name	<p>The unique encounter record identifier generated by the source system is displayed when available (HL7 and SFE files).</p> <p>The unique encounter code consists of the 5-digit exporting database identifier concatenated with zero filled IEN (Internal Entry Number) of the RPMS PCC record, and should allow record-level tracking (at the sending site) of these visits.</p> <p>If the unique encounter code is not available (CHSSTAT, STATRECS, DENTSTAT files), the export file name is displayed. The export file name, in combination with other information under headings like Authorization Number, Authorizing Facility, should allow record-level tracking of these visits.</p>

Column Header	Description
Authorizing Facility	The authorizing facility code and facility name appears only when the code is valid.
Provider Type Missing/Invalid	Record level information about provider type validation. The provider type and its name appear only when the code is valid. INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.
Authorization Number	The authorization number for this visit; it can be used in conjunction with the export file name and authorizing facility to identify these visit (purchase order) records at the source system.
Service Date	Date of service for the outpatient visit and admission date for the inpatient visit.
Discharge Date	Discharge date for this inpatient visit.
Visit Type	Displays the type of contract visit: contract outpatient or contract inpatient.

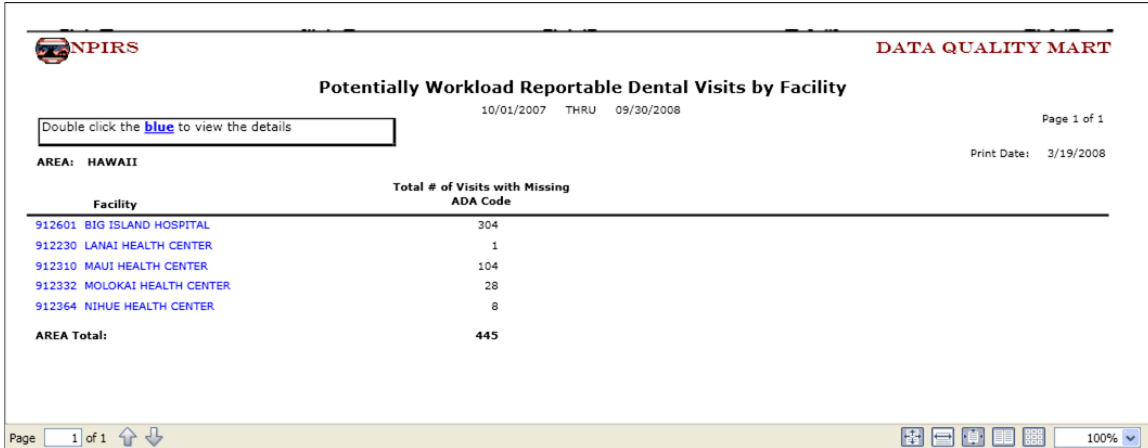
DQM-WL2DEN Potentially Workload Reportable Dental Visits

For each Area and facility, the **Potentially Workload Reportable Dental Visits** reports show direct and contract dental visits within a specified date range that potentially could be workload reportable but are not, because the essential data element deciding the dental visit workload reportability status is missing. For all dental visits, the essential data element is the presence of at least one **ADA** code.

Viewing the Summary Report

The main view displays a quantified summary of potentially workload reportable dental visits, showing the total numbers of these visits with no ADA code.

The following figure shows an example of the summarized view of the DQM-WL2DEN Potentially Workload Reportable Dental Visits report.



Column Header	Description
Facility	Authorizing facility code and name (Contract) or location of encounter facility code and name (Direct).
Total # of Visits with Missing ADA Code	Total count of dental visits marked as not workload reportable because these is not at least one ADA code).

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Facility** (blue font), displays the details of the selected report.

The following figure shows an example of a detailed view of the DQM-WL2DEN Potentially Workload Reportable Dental Visits report.

Potentially Workload Reportable Dental Visits

DETAIL for : **912310 MAUI HEALTH CENTER**

Exporting Facility	Encounter Code or Export Name	ADA Code	Type of Visit	Service Date	Authorization Number
912310	994490001292852	MISSING	DIRECT	10/8/2007	
912310	994490001293458	MISSING	DIRECT	10/10/2007	
912310	994490001294698	MISSING	DIRECT	10/11/2007	
912310	994490001297995	MISSING	DIRECT	10/24/2007	
912310	994490001298282	MISSING	DIRECT	10/18/2007	
912310	994490001298514	MISSING	DIRECT	10/25/2007	
912310	994490001301149	MISSING	DIRECT	11/2/2007	
912310	994490001301498	MISSING	DIRECT	11/5/2007	
912310	994490001304049	MISSING	DIRECT	11/15/2007	
912310	994490001307054	MISSING	DIRECT	11/28/2007	
912310	994490001307130	MISSING	DIRECT	11/28/2007	
912310	994490001308870	MISSING	DIRECT	12/4/2007	
912310	994490001308936	MISSING	DIRECT	11/28/2007	
912310	994490001308951	MISSING	DIRECT	12/4/2007	
912310	994490001309042	MISSING	DIRECT	11/9/2007	
912310	994490001309047	MISSING	DIRECT	12/3/2007	
912310	994490001309261	MISSING	DIRECT	11/15/2007	
912310	994490001309421	MISSING	DIRECT	12/4/2007	
912310	994490001309639	MISSING	DIRECT	11/5/2007	
912310	994490001309695	MISSING	DIRECT	11/21/2007	
912310	994490001309738	MISSING	DIRECT	11/28/2007	
912310	994490001309743	MISSING	DIRECT	11/6/2007	
912310	994490001309766	MISSING	DIRECT	12/5/2007	
912310	994490001309768	MISSING	DIRECT	11/9/2007	
912310	994490001310262	MISSING	DIRECT	11/6/2007	
912310	994490001310355	MISSING	DIRECT	11/15/2007	

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document loaded.

Column Header	Description
Exporting Facility	Code and name of facility exporting this visit record, which is displayed only when it is available.
Encounter Code or Export Name	The unique encounter record identifier generated by the source system is displayed when available (HL7 and SFE files). The unique encounter code consists of the 5-digit exporting database identifier concatenated with zero filled IEN (Internal Entry Number) of the RPMS PCC record, and should allow record-level tracking (at the sending site) of these visits. If the unique encounter code is not available (CHSSTAT, STATRECS, DENTSTAT files), the export file name is displayed. The export file name, in combination with other information under headings like Authorization Number, Authorizing Facility, should allow record-level tracking of these visits.
ADA Code	A valid visit must have at least one ADA code. INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.
Service Date	Date of service for the dental visit.

Column Header	Description
Type of Visit	The type of Dental visit: CONTRACT or DIRECT.
Authorization Number	The authorization number for contract dental visits only; it can be used in conjunction with the export file name and authorizing facility to identify these visit (purchase order) records at the source system.

DQM-WL2INP Potentially Workload Reportable Inpatient Visits

For each Area and location of encounter facility, the **Potentially Workload Reportable Inpatient Visits** reports show direct inpatient visits within a specified date range that potentially could be workload reportable but are not, because the essential data element deciding inpatient visit workload reportability status is missing. Starting with FY 2008, the data element is a **Primary Diagnosis** code.

Viewing the Summary Report

The main view displays a quantified summary of potentially workload reportable inpatient visits, showing the total numbers of these visits with no primary diagnosis code.

The following figure shows an example of the summarized view of the DQM-WL2INP Potentially Workload Reportable Inpatient Visits report.

Location of Encounter Facility	Total # of Visits with Missing Primary Diagnosis
912601 BIG ISLAND HOSPITAL	92
913201 KOHOOLAWE HOSPITAL	9
AREA Total:	101

Column Header	Description
Location of Encounter Facility	Location of encounter facility code and name.
Total # of Visits with Missing Primary Diagnosis	Total count of direct inpatient visits marked as not workload reportable because the primary diagnosis code is missing

Viewing Report Details

The detail view provides record-level identification of the problems, allowing corrective action. Double-clicking on any listed **Location of Encounter Facility** (blue font), displays the details of the selected report.

The following figure shows an example of a detailed view of the DQM-WL2INP Potentially Workload Reportable Inpatient Visits report.

Potentially Workload Reportable Inpatient Visits				
DETAIL for : 912601 BIG ISLAND HOSPITAL				Print Date: 3/19/2008
Exporting Facility	Encounter Code	Primary Diagnosis	Admission Date	Discharge Date
912601	983810004087441	MISSING	12/23/2007	01/04/2008
912601	983810004098681	MISSING	01/03/2008	01/04/2008
912601	983810004113993	MISSING	01/15/2008	01/22/2008
912601	983810004117773	MISSING	01/17/2008	01/22/2008
912601	983810004124501	MISSING	01/23/2008	01/28/2008
912601	983810004128579	MISSING	01/26/2008	01/27/2008
912601	983810004135192	MISSING	01/31/2008	02/02/2008
912601	983810004129114	MISSING	01/27/2008	01/30/2008
912601	983810004115871	MISSING	01/16/2008	01/28/2008
912601	983810004128420	MISSING	01/25/2008	02/03/2008
912601	983810004135193	MISSING	01/31/2008	02/02/2008
912601	983810004144743	MISSING	02/06/2008	02/07/2008
912601	983810004144914	MISSING	02/06/2008	02/08/2008
912601	983810004109831	MISSING	01/12/2008	01/18/2008
912601	983810004133128	MISSING	01/29/2008	02/02/2008
912601	983810004133323	MISSING	01/30/2008	02/05/2008
912601	983810004138936	MISSING	02/03/2008	02/08/2008
912601	983810004140411	MISSING	02/04/2008	02/11/2008
912601	983810004140499	MISSING	02/04/2008	02/08/2008
912601	983810004141377	MISSING	02/05/2008	02/08/2008
912601	983810004141976	MISSING	02/05/2008	02/06/2008
912601	983810004142015	MISSING	02/05/2008	02/09/2008
912601	983810004143185	MISSING	02/06/2008	02/08/2008
912601	983810004144804	MISSING	02/06/2008	02/08/2008
912601	983810004144933	MISSING	02/07/2008	02/09/2008
912601	983810004146756	MISSING	02/07/2008	02/10/2008
912601	983810004146941	MISSING	02/07/2008	02/10/2008

Column Header	Description
Exporting Facility	Code and name of facility exporting this visit record.
Encounter Code or Export Name	The unique encounter record identifier generated by the source system is displayed when available (HL7 and SFE files). The unique encounter code consists of the 5-digit exporting database identifier concatenated with zero filled IEN (Internal Entry Number) of the RPMS PCC record, and should allow record-level tracking (at the sending site) of these visits.
Primary Diagnosis	INVALID (red, bold font) indicates an invalid code MISSING (red, bold font) indicates no code.
Admission Date	Admission date of the inpatient visit.
Discharge Date	Discharge date of the inpatient visit.