

1 -- General Information

- 1.1 Introduction
- 1.2 Uses and Limitations
- 1.3 Access Procedures
- 1.4 Help Resources
- 1.5 Refresh Schedule

2 -- Table and View Information

- 2.1 Table Structure
- 2.2 Individual Table Descriptions
- 2.3 Table Joins
- 2.4 Key Fields
- 2.5 Views

3 -- Column/Field Information

- 3.1 Introduction
- 3.2 Column/Field Definitions
- 3.3 Column/Field Cross Reference

4 -- Appendix

- 4.1 Indexes
- 4.2 Additional Documentation

1 -- General Information

1.1 Introduction

DWIN is an acronym for the University's inventory database. It is designed for tracking and reporting on University of Minnesota equipment.

1.2 Uses and Limitations

All tables in the Data Access environment, including those from the Inventory tables, are intended primarily for institutional planning and projections, and ad hoc reporting purposes. As such they are intended to complement existing production reports and online query capabilities (e.g. PeopleSoft reporting). The primary benefit of having data in such an environment is that customers have direct access to the data using state of the art software technology, with the capability to design and run their own reports as the need arises, with minimal cost and effort.

1.3 Access Procedures

Inventory Services will authorize access to DWIN data to customers upon receipt of the access request and non-disclosure form.

The access form can be downloaded from the internet, <http://www1.umn.edu/datasec/security/Requestingaccess.html>

Just follow the routing instructions.

1.4 Help Resources

Because a problem may be due to several factors, it is important to have a variety of resources to turn to in seeking a solution. The chart below lists the available resource units and the kinds of questions each one can handle. In some cases expertise overlaps, so a given answer could be obtained from more than one place.

RESOURCE CONTACT	TOPICS	PHONE
Luke Madsen-Inventory Services	Table content, Data element definitions, Refresh information	(612) 626-8217
Data Warehouse Listserv	<p>SQL questions, Performance questions, Important news and updates about table loads and availability</p> <p>To Subscribe:</p> <p><u>IDEA Listserv (IDEA-L)</u></p> <p>IDEA Data Warehouse customers have an electronic forum for information sharing about IDEA, the data, the migration, table loads, query and reporting tools, tips, tricks, etc.</p> <p>If you would like to join the IDEA-L Listserv, please follow the steps below.</p> <p><u>TO SUBSCRIBE</u></p> <p>To subscribe to the IDEA-L listserv:</p> <p>1)Send an e-mail to LISTSERV@umn.edu 2)Leave the subject line blank. 3)Add the following text on the 1st line: SUBSCRIBE IDEA-L your full name</p> <p>Example: SUBSCRIBE IDEA-L John Doe</p> <p><u>TO SEND IDEA-L Listserv Mail</u></p> <p>Once you are a member, you may send mail to the listserv using this address: IDEA-L@umn.edu</p> <p><u>TO UNSUBSCRIBE</u></p> <p>To unsubscribe to the IDEA-L listserv:</p> <p>1)Send an e-mail to LISTSERV@umn.edu 2)Leave the subject line blank. 3)Add the following text on the 1st line: SIGNOFF IDEA-L</p> <p>Example: SIGNOFF IDEA-L</p>	
Help Desk	Database access, Refresh information, Client/Server environment, Oracle questions, SQL Questions, Response time problems, IDEA Web Page questions, Log in questions/problems, Microcomputer software questions, Network questions	(612) 301-4357 (1-HELP)

1.5 Refresh Schedule

The DWIN tables are updated monthly on the third weekend.

2 -- Table and View Information

2.1 Table Structure

The Data Warehouse at the University of Minnesota uses a relational database management system (Oracle). In relational data base systems, data are organized into tables of rows and columns. The tables are like files; they contain data with a common "theme". The rows of a table are like records within the file. Each column is like a data field, and represents an element that is common across the rows (records) of a table.

2.2 Individual Table Descriptions

DWIN_ACTIVE_EQUIP

Includes all capital equipment items on the active (non-disposed) University inventory records. Active file dates to pre-1965 (1910, 1911 indicate purchase before 1965). Each item has information by its property inventory number, category type and number, description (nomenclature), manufacturer, model and serial number, vendor, value, location information, acquisition account, contact, owner, custodian area, and depreciation information. Property disposal method is indexed in the data dictionary.

#	COLUMN NAME	COLUMN_DESCR	TYPE/SIZE	TABLE SOURCE	COLUMN SOURCE
1	prop_inven_num	Inventory Number/UID number	C(9)		
2	prop_catg_type	Property Category Type	C(2)		
3	prop_catg_num	Property Category Number	C(4)		
4	prop_cap_lease	Capital Lease Flag	C(1)		
5	prop_desc	Propery Description	C(45)		
6	prop_const_in_prog	Construction in Progress Flag	C(1)		
7	prop_contract_num	Contract Number	C(15)		
8	prop_contact_name	Contact Name	C(30)		
9	prop_contact_phone	Contact Phone	C(12)		
10	prop_owner	Property Owner	C(30)		
11	campus_loc	Campus Location	C(2)		
12	bldg_loc_num	Building Location Number	C(3)		
13	room_loc_num	Room Location Number	C(10)		
14	custodian_area_num	Custodian Area Number	C(3)		
15	custodian_area_name	Custodian Area Name	C(20)		
16	prop_user	Property User	C(4)		
17	last_inven_date	Last Inventory Date	D(7)		
18	bldg_loc_abbr	Building Location Abbreviation	C(9)		
19	prop_manufacture_yr	Year Manufactured	C(4)		

20	prop_model_num	Model Number	C(15)		
21	prop_serial_num	Serial Number	C(20)		
22	prop_manufacturer	Manufacturer	C(20)		
23	prop_vendor	Vendor	C(30)		
24	prop_acquisition_acct	Acquisition Account	C(16)		
25	prop_value	Property Value	N(12.2)		
26	curr_fisc_yr_deprec	Current Fiscal Year Depreciation	N(12.2)		
27	deprec_method	Depreciation Method	C(2)		
28	tot_accum_deprec	Total Accumulated Depreciation	N(12.2)		
29	monthly_amt_deprec	Monthly Depreciation Amount	N(8.2)		
30	last_deprec_date	Last Depreciation Date	D(7)		
31	prop_disposal_date	Disposal Date	D(7)		
32	disposal_method	Disposal Method	C(2)		
33	prop_remaining_life	Remaining Life	N(3.0)		
34	prop_spons_funds	Sponsored Funds	C(1)		

DWIN_EQUIP_CATG_AND_DEPREC

Lists all property categories by type (two digits) and by corresponding number (four digits). Includes a description of those categories and shows a depreciation method code (almost always "straight line") and its useful life in years.

#	COLUMN NAME	COLUMN_DESCR	TYPE/SIZE	TABLE SOURCE	COLUMN SOURCE
1	prop_catg_type	Property Category Type	C(2)		
2	prop_catg_num	Property Category Number	C(4)		
3	prop_catg_desc	Property Category Description	C(20)		
4	prop_deprec_method	Depreciation Method	C(2)		
5	prop_useful_life	Useful Life	N(2.0)		

DWIN_EQUIP_TRAN_HIST

Includes the detail on every transaction to property, active and inactive. Fields shown are inventory number, total value, transaction date (calendar), CUFS Area code, supporting document, PAMS transaction code, fiscal month of activity, custodian account, the amount of each transaction, and any transaction comments. Property transaction type is indexed in the data dictionary.

#	COLUMN NAME	COLUMN_DESCR	TYPE/SIZE	TABLE SOURCE	COLUMN SOURCE
1	prop_inven_num	Inventory Number/UID number	C(9)		
2	support_doc_num	Supporting Document Number	C(11)		
3	support_doc_type	Supporting Document Type	C(2)		
4	support_doc_yr	Supporting Document Year	C(4)		
5	prop_tran_date	Date of Transfer	D(7)		
6	prop_tran_method	Transaction Method	C(2)		
7	prop_tran_acct	Transfer to Account	C(16)		
8	tran_fisc_month	Transaction Fiscal Month	C(2)		
9	prop_tran_amt	Transaction Amount	N(12.2)		
10	prop_tran_comment	Transaction Comments	C(40)		
11	prop_tran_reconciled	Transaction Reconciled Flag	C(1)		
12	tran_fund	Transaction Fund	C(4)		
13	tran_area	Transaction Area	C(3)		
14	tran_fund_class	Transaction Fund Class	C(3)		

DWIN_INACTIVE_EQUIP

Includes the same information as items on the Active Equipment table, but only for items that have been disposed. These entries include a two-digit code indicating the property disposal method and reason, and the fiscal year and month of the disposal (disposition date). This table includes only those items disposed of since 1989. All disposals prior to that date are no longer in PAMS in any form. Property disposal method is indexed on the Inactive Equipment table.

The Active and Inactive Equipment tables share the same layout.

#	COLUMN NAME	COLUMN_DESCR	TYPE/SIZE	TABLE SOURCE	COLUMN SOURCE
1	prop_inven_num	Inventory Number/UID number	C(9)		
2	prop_catg_type	Property Category Type	C(2)		
3	prop_catg_num	Property Category Number	C(4)		
4	prop_cap_lease	Capital Lease Flag	C(1)		
5	prop_desc	Property Description	C(45)		
6	prop_const_in_prog	Construction in Progress Flag	C(1)		
7	prop_contract_num	Contract Number	C(15)		
8	prop_contact_name	Contact Name	C(30)		
9	prop_contact_phone	Contact Phone	C(12)		
10	prop_owner	Property Owner	C(30)		
11	campus_loc	Campus Location	C(2)		
12	bldg_loc_num	Building Location Number	C(3)		
13	room_loc_num	Room Location Number	C(10)		

14	custodian_area_num	Custodian Area Number	C(3)		
15	custodian_area_name	Custodian Area Name	C(20)		
16	prop_user	Property User	C(4)		
17	last_inven_date	Last Inventory Date	D(7)		
18	bldg_loc_abbr	Building Location Abbreviation	C(9)		
19	prop_manufacture_yr	Year Manufactured	C(4)		
20	prop_model_num	Model Number	C(15)		
21	prop_serial_num	Serial Number	C(20)		
22	prop_manufacturer	Manufacturer	C(20)		
23	prop_vendor	Vendor	C(30)		
24	prop_acquisition_acct	Acquisition Account	C(16)		
25	prop_value	Property Value	N(12.2)		
26	curr_fisc_yr_deprec	Current Fiscal Year Depreciation	N(12.2)		
27	deprec_method	Depreciation Method	C(2)		
28	tot_accum_deprec	Total Accumulated Depreciation	N(12.2)		
29	monthly_amt_deprec	Monthly Depreciation Amount	N(8.2)		
30	last_deprec_date	Last Depreciation Date	D(7)		
31	prop_disposal_date	Disposal Date	D(7)		
32	disposal_method	Disposal Method	C(2)		
33	prop_remaining_life	Remaining Life	N(3.0)		
34	prop_spons_funds	Sponsored Funds	C(1)		

2.3 Table Joins

First Table	Linking Field	Linking Field	Second Table
dwin_active_equip	prop_catg_num	prop_catg_num	dwin_equip_catg_and_deprec
dwin_active_equip	prop_catg_type	prop_catg_type	dwin_equip_catg_and_deprec
dwin_active_equip	prop_inven_num	prop_inven_num	dwin_equip_tran_hist
dwin_inactive_equip	prop_catg_num	prop_catg_num	dwin_equip_catg_and_deprec
dwin_inactive_equip	prop_catg_type	prop_catg_type	dwin_equip_catg_and_deprec
dwin_inactive_equip	prop_inven_num	prop_inven_num	dwin_equip_tran_hist

2.4 Key Fields

Table Name	Key Fields
DWIN_ACTIVE_EQUIP	prop_inven_num
DWIN_EQUIP_CATG_AND_DEPREC	prop_catg_type, prop_catg_num
DWIN_EQUIP_TRAN_HIST	??
DWIN_INACTIVE_EQUIP	prop_inven_num

2.5 Views

There are no views.

3 -- Column/Field Information

3.1 Introduction

This section describes the specific data elements or fields in the DWIN tables. Section 3.2 is a dictionary listing of all the elements (columns or fields) in alphabetic order. Included are full and short column names, column definitions, type, size, and some code definitions. It is intended to help users select and interpret DWIN data. Section 3.3 is a cross reference associating column names with the tables in which they occur.

The alphabetic dictionary lists the elements (columns or fields) in alphabetic order and provides the following information about each:

The field name (e.g. empl_rcdno) is the actual name of the element (column or field) used in the table. It is the name you use in your SELECT section of your query.

The dictionary name (e.g. Employment Rcd Nbr) is a descriptive name for use in this dictionary. Because of data base management software restrictions on the length and format of column names, it is not the element name actually used in the database.

The remainder of the entry indicates the picture (i.e. size and type) and content of each element. The type will be either numeric (integer or decimal), alphanumeric, or date. Size indicates how large the element is, as shown in the table below:

C(2) = Character element two characters long.

D(10) = Date. The size and format of the date depends on the software product extracting the column from IDEA.

N(1) = Integer number 1 digit long.

N(6) = Integer number 6 digits long

N(11.2) = Decimal number consisting of eleven digits, with 2 of those digits being to the right of the decimal point (99999999.99).

DT(26) = Date/Time

T(15) = Time

3.2 Column/Field Definitions

BLDG_LOC_ABBR

Building Location AbbreviationC9

Short name of the building.

BLDG_LOC_NUM

Building Location NumberC3

Number that indicates the building in which the property is located.

CAMPUS_LOC

Campus LocationC2

Amount of monthly depreciation.

PROP_ACQUISITION_ACCT **Acquisition AccountC16**

The account number used to acquire the equipment or property. Usually it is either a CUFS account number, or a Fund/Department/Budget number from the old financial system.

PROP_CAP_LEASE **Capital Lease FlagC1**

Indicates whether the property is being acquired through a capital lease.

PROP_CATG_DESC **Property Category DescriptionC20**

A more detailed description of property - describes the category number(prop_catg_num). Values fall under the category code (prop_catg_type). For example, for prop_catg_type = 66 - Dental Equipment, category numbers and category descriptions would be:

- 0010 = ABRASIVE UNIT
- 0300 = ARTICULATOR
- 1260 = CASTING, MACHINE
- 1470 = CHAIR, DENTAL
- 2040 = CONTROL STATION, PED
- 2310 = CURING UNIT
- 2500 = DENTAL UNIT
- 2780 = DRILL
- 3210 = EVACUATOR
- 4290 = HANDPIECE
- 6000 = OPERATORY UNIT, DENT
- 7080 = SANDBLASTER
- 7140 = SCALER
- 8010 = STEAM CLEANER, DEN
- 9245 = VACUUM PRESS

PROP_CATG_NUM **Property Category NumberC4**

Subset of category code (prop_catg_type) that more specifically identifies the type of equipment, e.g., table, chair, IBM computer, Apple computer.

PROP_CATG_TYPE **Property Category TypeC2**

Code that indicates the first level or category of equipment. The category number (prop_cat_num) falls under the category type and includes a description (prop_cat_desc). Values currently used include:

- 6 = furniture and fixtures
- 11 = office and printing machines
- 22 = agricultural machinery
- 28 = construction, excavating, conveying, elevating, and campus maintenance
- 33 = engines, motors, compressors, and pumps
- 39 = heating, ventilating, refrigeration, custodial appliances, and vending machines
- 44 = machine tools and related shop equipment
- 50 = transportation and transporting equipment
- 55 = communications (incl. tape recorders), television, and data processing equipment
- 56 = electrical/electronic accessory equipment
- 58 = musical instruments
- 61 = photographic equipment
- 66 = dental equipment
- 72 = medical/surgical/veterinary equipment
- 83 = instruments for measuring, controlling, recording, and testing
- 88 = optical equipment (binoculars, microscopes, periscopes, and telescopes)
- 91 = athletics and recreational equipment
- 92 = miscellaneous (strictly alphabetical)

PROP_CONST_IN_PROG **Construction in Progress FlagC1**

Indicates if an item is a fabrication of equipment currently under construction (not yet completed and billed). Y=Yes and N=No

PROP_CONTACT_NAME **Contact NameC30**

Name of the contact person for the department that is responsible for the property.

PROP_CONTACT_PHONE **Contact PhoneC12**

The contact's telephone number.

PROP_CONTRACT_NUM **Contract NumberC15**

The sponsored contract number under which the property was acquired.

PROP_DEPREC_METHOD **Depreciation MethodC2**

Description of the property to assist in the identification of the asset.

PROP_DESC **Property DescriptionC45**

Description of the property to assist in the identification of the asset.

PROP_DISPOSAL_DATE **Disposal DateD7**

Fiscal year and month item was disposed (1996/12 - CCYY/MM).

PROP_INVEN_NUM **Inventory Number/UID numberC9**

Property identification inventory number used for University of Minnesota assets. First four characters are the calendar year in which the equipment was added to the inventory records.

PROP_MANUFACTURER **ManufacturerC20**

Maker of the property described.

PROP_MANUFACTURE_YR **Year ManufacturedC4**

Year in which the property was manufactured. Usually reflects the year of purchase.

PROP_MODEL_NUM **Model NumberC15**

Maker's model number or reference.

PROP_OWNER **Property OwnerC30**

True owner of the equipment; usually the University of Minnesota, unless ownership lies with a granting (sponsoring) agency.

PROP_REMAINING_LIFE **Remaining LifeN3.0**

Number of months of depreciation remaining.

PROP_SERIAL_NUM **Serial NumberC20**

Maker's serial number.

PROP_SPONS_FUNDS **Sponsored FundsC1**

Indicates if any sponsored funds were used in the acquisition of the property (Y=Yes and N=No).

PROP_TRAN_ACCT **Transfer to AccountC16**

Any transfers are indicated in Equipment Transaction History table. Last area transferred to is referenced in Active/Inactive tables as CUFS Fund Area Org Sub-Org or Fund/Department/Budget (from old system).

PROP_TRAN_AMT **Transaction AmountN12.2**

Dollar amount of the transaction.

PROP_TRAN_COMMENT **Transaction CommentsC40**

An explanation of the transaction; refers to the transaction method code.

TOT_ACCUM_DEPREC**Total Accumulated DepreciationN12.2**

Total depreciation taken on the property to date.

TRAN_AREA**Transaction AreaC3**

CUFS Area code used in the transaction.

TRAN_FISC_MONTH**Transaction Fiscal MonthC2**

General ledger accounting period in which the transaction went through. Values include:

01 = July
 02 = August
 03 = September
 04 = October
 05 = November
 05 = December
 07 = January
 08 = February
 09 = March
 10 = April
 11 = May
 12 = June

TRAN_FUND**Transaction FundC4**

CUFS Fund code used in the transaction.

TRAN_FUND_CLASS**Transaction Fund ClassC3**

CUFS Fund Class code used in the transaction.

3.3 Column/Field Cross Reference

Column Name	Table Name
bldg_loc_abbr	dwin_active_equip
bldg_loc_abbr	dwin_inactive_equip
bldg_loc_num	dwin_active_equip
bldg_loc_num	dwin_inactive_equip
campus_loc	dwin_active_equip
campus_loc	dwin_inactive_equip
curr_fisc_yr_deprec	dwin_active_equip
curr_fisc_yr_deprec	dwin_inactive_equip
custodian_area_name	dwin_active_equip
custodian_area_name	dwin_inactive_equip
custodian_area_num	dwin_active_equip
custodian_area_num	dwin_inactive_equip
deprec_method	dwin_active_equip
deprec_method	dwin_inactive_equip
disposal_method	dwin_active_equip
disposal_method	dwin_inactive_equip
last_deprec_date	dwin_active_equip
last_deprec_date	dwin_inactive_equip
last_inven_date	dwin_active_equip

last_inven_date	dwin_inactive_equip
monthly_amt_deprec	dwin_active_equip
monthly_amt_deprec	dwin_inactive_equip
prop_acquisition_acct	dwin_active_equip
prop_acquisition_acct	dwin_inactive_equip
prop_cap_lease	dwin_active_equip
prop_cap_lease	dwin_inactive_equip
prop_catg_desc	dwin_equip_catg_and_deprec
prop_catg_num	dwin_active_equip
prop_catg_num	dwin_equip_catg_and_deprec
prop_catg_num	dwin_inactive_equip
prop_catg_type	dwin_active_equip
prop_catg_type	dwin_equip_catg_and_deprec
prop_catg_type	dwin_inactive_equip
prop_const_in_prog	dwin_active_equip
prop_const_in_prog	dwin_inactive_equip
prop_contact_name	dwin_active_equip
prop_contact_name	dwin_inactive_equip
prop_contact_phone	dwin_active_equip
prop_contact_phone	dwin_inactive_equip
prop_contract_num	dwin_active_equip
prop_contract_num	dwin_inactive_equip
prop_deprec_method	dwin_equip_catg_and_deprec
prop_desc	dwin_active_equip
prop_desc	dwin_inactive_equip
prop_disposal_date	dwin_active_equip
prop_disposal_date	dwin_inactive_equip
prop_inven_num	dwin_active_equip
prop_inven_num	dwin_equip_tran_hist
prop_inven_num	dwin_inactive_equip
prop_manufacture_yr	dwin_active_equip
prop_manufacture_yr	dwin_inactive_equip
prop_manufacturer	dwin_active_equip
prop_manufacturer	dwin_inactive_equip
prop_model_num	dwin_active_equip
prop_model_num	dwin_inactive_equip
prop_owner	dwin_active_equip
prop_owner	dwin_inactive_equip
prop_remaining_life	dwin_active_equip
prop_remaining_life	dwin_inactive_equip
prop_serial_num	dwin_active_equip
prop_serial_num	dwin_inactive_equip

prop_spons_funds	dwin_active_equip
prop_spons_funds	dwin_inactive_equip
prop_tran_acct	dwin_equip_tran_hist
prop_tran_amt	dwin_equip_tran_hist
prop_tran_comment	dwin_equip_tran_hist
prop_tran_date	dwin_equip_tran_hist
prop_tran_method	dwin_equip_tran_hist
prop_tran_reconciled	dwin_equip_tran_hist
prop_useful_life	dwin_equip_catg_and_deprec
prop_user	dwin_active_equip
prop_user	dwin_inactive_equip
prop_value	dwin_active_equip
prop_value	dwin_inactive_equip
prop_vendor	dwin_active_equip
prop_vendor	dwin_inactive_equip
room_loc_num	dwin_active_equip
room_loc_num	dwin_inactive_equip
support_doc_num	dwin_equip_tran_hist
support_doc_type	dwin_equip_tran_hist
support_doc_yr	dwin_equip_tran_hist
tot_accum_deprec	dwin_active_equip
tot_accum_deprec	dwin_inactive_equip
tran_area	dwin_equip_tran_hist
tran_fisc_month	dwin_equip_tran_hist
tran_fund	dwin_equip_tran_hist
tran_fund_class	dwin_equip_tran_hist

4 -- Appendix

4.1 Indexes

Table Name	Index	Column Name
DWIN_ACTIVE_EQUIP	ACTEQUIP1	PROP_INVEN_NUM
DWIN_ACTIVE_EQUIP	ACTEQUIP2	PROP_CATG_TYPE
DWIN_ACTIVE_EQUIP	ACTEQUIP2	PROP_CATG_NUM
DWIN_ACTIVE_EQUIP	ACTEQUIP3	CUSTODIAN_AREA_NUM
DWIN_ACTIVE_EQUIP	ACTEQUIP4	PROP_ACQUISITION_ACCT
DWIN_EQUIP_CATG_AND_DEPREC	EQUIPCATX1	PROP_CATG_TYPE
DWIN_EQUIP_CATG_AND_DEPREC	EQUIPCATX1	PROP_CATG_NUM
DWIN_EQUIP_TRAN_HIST	EQUIPTRNX1	PROP_INVEN_NUM
DWIN_EQUIP_TRAN_HIST	EQUIPTRNX1	SUPPORT_DOC_NUM
DWIN_EQUIP_TRAN_HIST	EQUIPTRNX1	SUPPORT_DOC_TYPE

DWIN_EQUIP_TRAN_HIST	EQUIPTRNX2	SUPPORT_DOC_NUM
DWIN_EQUIP_TRAN_HIST	EQUIPTRNX2	SUPPORT_DOC_TYPE
DWIN_EQUIP_TRAN_HIST	EQUIPTRNX2	SUPPORT_DOC_YR
DWIN_INACTIVE_EQUIP	INACTIVEX1	PROP_INVEN_NUM
DWIN_INACTIVE_EQUIP	INACTIVEX2	PROP_CATG_TYPE
DWIN_INACTIVE_EQUIP	INACTIVEX2	PROP_CATG_NUM
DWIN_INACTIVE_EQUIP	INACTIVEX3	CUSTODIAN_AREA_NUM
DWIN_INACTIVE_EQUIP	INACTIVEX4	PROP_ACQUISITION_ACCT

4.2 Additional Documentation

Data Warehouse Home Page: <http://dw.umn.edu>

OIT Data Security: <http://www1.umn.edu/datasec/security/>

OIT Policies, Standards, and Guidelines: <http://www.umn.edu/oit/policies>

Training Services Home Page: <http://www1.umn.edu/ohr/trainingservices/>