## Appendix A: V0 IMS Data Dictionary

Note: Keywords containing a tilde (~) are variants. The part following the ~ is not an actual part of the keyword but is used to distinguish conflicting definitions in the data dictionary. Only the part before the tilde is used in actual ODL messages.

**ABORT** 

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

An abort message is sent by the client to request abortion of various searches.

There is no literal abort message per se; in reality, it is a QUIT message with

STATUS\_CODE = 1000.

Parent Groups:

Children:

ACCOUNT\_COMMENT

Maximum length: 256

Possible values:

**ODL Type:** Sequence String

Definition:

Notes on the status of the account.

Parent Groups: VALID ACCOUNT

Children:

ACCOUNT\_NUMBER

Maximum length: 80

Possible values:

**ODL Type:** String

Definition:

Account identifier provided by a DAAC.

Parent Groups: VALID\_ACCOUNT

Children:

ACCOUNT\_STATUS\_REQUEST

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Provides data for query of account status for all accounts for the user described by

the CONTACT\_ADDRESS at data center.

Parent Groups:

Children:

[AUTHENTICATOR], CONTACT\_ADDRESS, DATA CENTER ID.

[ECS\_AUTHENTICATOR], MESSAGE\_ID, MONITOR, VERSION

ACCOUNT\_STATUS\_RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Result of status request for this user.

Parent Groups:

Children:

DATA\_CENTER\_ID, MESSAGE\_ID, MONITOR, STATUS CODE.

[STATUS\_CODE\_COMMENT], [VALID\_ACCOUNT], VERSION

**ACKNOWLEDGE** 

Possible values:

Maximum length:

ODL Type: Aggregate

Definition:

Message sent to acknowledge receipt by client of inventory search chunk or

inventory browse file.

Used on inventory browse only with ASTER extensions for multiple browse files

per granule.

Parent Groups:

Children:

[MESSAGE\_ID], MONITOR, VERSION

ADDITIONAL\_INFO

Maximum length: 80

**ODL Type: String** 

Possible values: Definition:

User supplied information about order, applied to each package (line item).

Parent Groups:

LINE\_ITEM

Children:

**ADDRESS** 

Maximum length: 32

ODL Type: Sequence String

Possible values: Definition:

Mailing (street) address for parent group, up to three lines.

Should be no more than 3 strings in the sequence.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

DATA\_SET\_CONTACT, SHIPPING\_ADDRESS

Children:

APPROX COST

Maximum length: 16

ODL Type: Real

Definition:

Estimated cost for the selected data package.

Parent Groups:

MEDIA\_FORMAT~1

Children:

AUTHENTICATION\_KEY

Maximum length: 16

Possible values:

ODL Type: String

Definition:

Password provided by user for accessing restricted data.

identified on profile screen as "Restricted Data Access Key."

Parent Groups:

**AUTHENTICATOR** 

Maximum length: 16

Possible values:

**ODL Type:** String

Definition:

Encrypted value from authentication key, last name, first name. Passed with every

request (if authentication key is not blank).

If AUTHENTICATION\_KEY is null, so will this be. Encryption is blind to case and

non-alphanumeric characters.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, BROWSE\_REQUEST,

DIRECTORY\_SEARCH, INVENTORY\_SEARCH,

PRODUCT\_CANCEL\_REQUEST, PRODUCT\_REQUEST,

PRODUCT\_STATUS\_REQUEST, QUIT

Children:

**BALANCE** 

Maximum length: 16

ODL Type: Real

Possible values: Definition:

Dollar amount remaining for a particular account.

Parent Groups:

VALID\_ACCOUNT

Children:

**BILLING\_ADDRESS** 

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Billing address for data order.

**Parent Groups:** 

PRODUCT\_REQUEST

Children:

[ADDRESS], CITY, COUNTRY, [EMAIL], [FAX], FIRST\_NAME, LAST\_NAME,

[MIDDLE\_INITIAL], [ORGANIZATION], PHONE, [STATE], [TITLE], [ZIP]

BILLING\_ID

Maximum length: 80

Possible values:

ODL Type: String

Definition:

Account number that the user enters or selects from the ACCOUNT\_NUMBERs in

one of the VALID\_ACCOUNTs.

Parent Groups:

LINE\_ITEM

Children:

**BROWSE** 

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Indicates what kinds of browse products are available from the archive for this data

set.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol messages.

Parent Groups:

DATASET~4

Children:

FTP. INTEGRATED

BROWSE\_GRANULES

Possible values:

Maximum length:

ODL Type: Aggregate

Definition:

Granules of browse request.

In spite of name, a single granule is identified for the browse request. Each file, whether ftp or integrated, is specified in it's own request. The capability to request multiple ftp browse with a single message was discussed but never fully

implemented.

Parent Groups:

BROWSE\_REQUEST

Children:

DATASET\_ID, GRANULE\_ID

BROWSE\_HEADER

Possible values:

Maximum length:

ODL Type: Aggregate

Definition:

Header information prefixed to browse file.

Not used in V0 protocol messages.

Parent Groups:

Children:

BROWSE\_ONLY

Possible values: Y

Maximum length: 1

ODL Type: Symbol

Definition:

Indicates only granules having associated browse images should be returned from

the inventory search.

Parent Groups:

INVENTORY\_SEARCH

Children:

BROWSE\_PRODUCT\_DESCRIPTION

Maximum length: 80

**ODL Type:** Sequence String

Possible values: Definition:

Browse product (image) description.

Parent Groups: DATASET~1

Children:

BROWSE\_REQUEST

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Message requesting transfer of browse image(s).

In fact, no V0 system sends or requires USER\_AFFILIATION in

BROWSE\_REQUESTs.

Parent Groups:

Children:

[AUTHENTICATOR], BROWSE\_GRANULES, BROWSE\_TYPE,

CONTACT\_ADDRESS, DATA\_CENTER\_ID, [ECS\_AUTHENTICATOR],

MESSAGE\_ID, MONITOR, [USER\_AFFILIATION], VERSION

BROWSE TYPE

Possible values: Y, N, FTP Only

Maximum length: 8
ODL Type: Symbol

**Definition:** 

Type of delivery for browse image.

In a BROWSE\_REQUEST, FTP\_ONLY means "send ftp browse" and Y means "send integrated browse." In a GRANULE, N means "not available," FTP\_ONLY means "available only as FTP," and Y means "available as integrated" (and if INTEGRATED\_BROWSE\_ONLY=Y, then browse is available by integrated but not

ftp, otherwise it is available by both).

Parent Groups:

BROWSE\_REQUEST, GRANULE

Children:

BROWSE URL

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Web URL providing access to browse images.

Parent Groups:

DATASET~1, DATASET~2, GRANULE

Children:

URL, URL\_COMMENT

CAMPAIGN

Maximum length: 80

Possible values:

**ODL Type:** String or Sequence

String

Definition:

Name(s) of campaign/project that gathered data associated with a dataset,

granule, or search.

For backward compatibility, a single campaign value uses a string, multiple use a

sequence string.

Parent Groups:

DATASET-1, DATASET-4, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

CATEGORY

Maximum length: 7

ODL Type: String

Definition:

Possible values: USA, NOT USA

Affiliation category (USA or non-USA) for a user.

Parent Groups:

USER\_AFFILIATION

Children:

CENTROID LAT

Maximum length: 9

Possible values:

ODL Type: Real

**Definition:** 

Latitude of center point coordinate where coverage is described as a quadrilateral

or G-ring.

Parent Groups:

G\_RING\_LOC, POLYGON\_LOC~2

CENTROID\_LON

Maximum length: 9

Possible values:

ODL Type: Real

Definition:

Longitude of center point coordinate where coverage is described as a

quadrilateral or G-ring.

Parent Groups:

G\_RING\_LOC, POLYGON\_LOC~2

Children:

CITY

Maximum length: 30

**ODL Type:** String

Definition:

City of the address.

Parent Groups:

Possible values:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

SHIPPING\_ADDRESS

Children:

CLOUD\_COVERAGE

Maximum length: 3

Possible values:

ODL Type: Integer

Definition:

Percent of cloud coverage for granule.

(ASTER/ECS only.) This keyword is used as user's search parameter. This value

is for quadrant scene. (Used by ASTER/ECS only. Presumably this is the maximum cloud cover value to be returned, though current ASTER documentation doesn't make this clear. V0 extended search capabilities provide a more flexible

search mechanism that was developed in parallel.)

Parent Groups:

Possible values:

INVENTORY\_SEARCH

Children:

**COLORBAR** 

Maximum length: 3

ODL Type: Sequence Integer

Definition:

May be provided to supply information needed to construct a continuous colorbar.

Each min, max pair represents a range of colors (0 through 255) used in the image. Each max must be not less than its corresponding min, but the pairs need

not be in order.

Parent Groups:

Possible values:

LEGEND

Children:

COMMENT

Maximum length: 60

ODL Type: Sequence String

Definition:

Arbitrary text information about corresponding granule, dataset, or package

provided by the data center.

Parent Groups:

DATASET~1, GRANULE, PACKAGE, SPECIALIZED\_CRITERIA~1

**COMPLETION DATE** 

Maximum length: 10

Possible values: yyyy-mm-dd

ODL Type: String

Definition:

Actual date order was completed.

Present when STATUS\_CODE=COMPLETED. ASTER GDS does not return

COMPLETION\_DATE under SUB\_REQUEST\_STATUS\_INFO.

Parent Groups:

ORDER\_STATUS\_INFO, SUB\_REQUEST\_STATUS\_INFO

Children:

CONTACT ADDRESS

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

The address portion of a user's contact information.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, BROWSE\_REQUEST, PRODUCT\_REQUEST

Children:

ADDRESS, CITY, COUNTRY, EMAIL, [FAX], FIRST\_NAME, LAST\_NAME,

[MIDDLE\_INITIAL], [ORGANIZATION], PHONE, [STATE], [TITLE], [ZIP]

CONTACT\_NAME

Maximum length: 80

ODL Type: String

Possible values:

Name of contact at the Data Center.

Parent Groups:

DAAC\_CONTACT\_ADDRESS

Children:

Definition:

COUNTRY

Maximum length: 30

Possible values:

**ODL Type:** String

**Definition:** 

Country of the address.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

SHIPPING\_ADDRESS

Children:

CRITERIA DEFAULT

Maximum length: 30

Possible values:

ODL Type: Sequence (Real,

Integer, Date, or integer)

Definition:

Default value(s) for criterion.

Type must match type specified in CRITERIA\_TYPE. If SELECT\_NUM=MANY, then CRITERIA\_DEFAULT can be any number of the CRITERIA\_VALUEs. If RANGE=Y, then CRITERIA\_VALUE should be a sequence of two which will be the default minimum and maximum respectively. Otherwise CRITERIA\_DEFAULT

should be a single value.

Parent Groups:

SPECIALIZED CRITERIA-1

CRITERIA MAX

Maximum length: 30

Possible values:

ODL Type: Real, Integer, or Date

Definition:

Maximum value acceptable for criterion, or maximum value of range specified.

Type must match type specified in CRITERIA\_TYPE.

Parent Groups:

SPECIALIZED\_CRITERIA~1, SPECIALIZED\_CRITERIA~2

Children:

CRITERIA\_MIN

Maximum length: 30

Possible values:

ODL Type: Real, Integer, or Date

**Definition:** 

Minimum value acceptable for criterion, or minimum value of range specified.

Type must match type specified in CRITERIA\_TYPE.

Parent Groups:

SPECIALIZED\_CRITERIA~1, SPECIALIZED\_CRITERIA~2

Children:

CRITERIA NAME

Maximum length: 80

Possible values:

ODL Type: String

Definition:

Name used by data center to identify specific criterion.

Parent Groups:

SPECIALIZED\_CRITERIA~1, SPECIALIZED\_CRITERIA~2

Children:

CRITERIA\_TYPE

Maximum length: 7

Possible values: STRING, REAL, INTEGER, DATE, GEO

**ODL Type:** String

Definition:

ODL type (or GEO) allowed for this criterion.

CRITERIA\_MAX. CRITERIA\_MIN, and CRITERIA\_VALUE must be of this type for all but GEO. If GEO, CRITERIA\_VALUE in SPECIALIZED\_CRITERIA~1 will be a

sequence string specifying allowable geographic types.

Parent Groups:

SPECIALIZED\_CRITERIA~1, SPECIALIZED\_CRITERIA~2

Children:

CRITERIA\_VALUE

Maximum length: 30

Possible values:

ODL Type: Sequence (Real.)

Integer, Date, or Integer)

Definition:

List of values acceptable for criterion, or value(s) specified by user for criterion.

If CRITERIA\_TYPE=GEO, then CRITERIA\_VALUE in

SPECIALIZED\_CRITERIA~1 must be a sequence string containing one or more of "BY\_POINT\_LOC", "BY\_RANGE\_LOC", and "BY\_POLYGON\_LOC"; and the returning SPECIALIZED\_CRITERIA~2 in the SUBSET\_SPEC, ORDER\_SPEC, or DATASET\_ORDER\_SPEC can contain a geographic specification of one of the

matching types. Otherwise, type of CRITERIA\_VALUE in both

SPECIALIZED\_CRITERIA~1 and SPECIALIZED\_CRITERIA~2 must match type

specified in CRITERIA\_TYPE (or a sequence of that type).

Parent Groups:

SPECIALIZED\_CRITERIA~1, SPECIALIZED\_CRITERIA~2

DAAC\_CONTACT\_ADDRESS

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

User Support contact information (including DAAC order id) for one or more data

sets.

Information associated with one or more datasets. Group may be repeated in an FTP\_BROWSE\_RESULT or PRODUCT\_RESULT, though older clients display

only the first.

Parent Groups:

FTP\_BROWSE\_RESULT, PRODUCT\_RESULT, PRODUCT\_STATUS\_INFO,

SUB\_REQUEST\_STATUS\_INFO

Children:

[ADDRESS], CITY, CONTACT\_NAME, COUNTRY, [DAAC\_ORDER\_ID], [DATASET\_ID], [EMAIL], [FAX], ORGANIZATION, PHONE, [STATE], [ZIP]

DAAC\_ORDER\_ID

Maximum length: 70

Possible values: Definition: **ODL Type:** String Optional identifier for order provided by data center.

Parent Groups:

DAAC\_CONTACT\_ADDRESS

Children:

DATA\_CENTER\_ID

Maximum length: 10

Possible values: Must match (case blind) IMS valids name

**ODL Type:** Sequence String

for DAAC.

Definition:

Name of data center targeted by request or transmitting results.

Not included in INTEGRATED\_BROWSE\_RESULT for ASTER/ECS only.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, ACCOUNT\_STATUS\_RESULT, BROWSE\_REQUEST, DIRECTORY\_RESULT, DIRECTORY\_SEARCH,

FTP\_BROWSE\_RESULT, GCMD\_SEARCH,

INTEGRATED\_BROWSE\_RESULT, INVENTORY\_RESULT,

INVENTORY\_SEARCH, PACKAGE, PRICE\_ESTIMATE\_REQUEST,

PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL\_RESULT,

PRODUCT\_REQUEST, PRODUCT\_RESULT, PRODUCT\_STATUS\_INFO, QUIT

Children:

DATA\_CENTER\_ID~2

Maximum length: 10

Possible values:

ODL Type: String

Definition:

Data center whose dependent valids are being submitted.

Not used in V0 protocol messages.

Parent Groups:

VALIDS

Children:

DATA CENTER\_LONGNAME

Maximum length: 20

Possible values:

**ODL Type:** String

Definition:

The name of the Data Center that archives the data set.

(ASTER/ECS only.) Examples of this would be GSFC, LaRC, etc. (Obviously the

"long" is a misnomer.) Returned by ECS in ASTER directory searches.

Parent Groups:

DATA\_SET\_CONTACT

DATA\_CENTER\_URL

Maximum length: 64

Possible values:

**ODL Type:** String

Definition:

The Universal Reference Locator for accessing the data center.

(ASTER/ECS only.)

Parent Groups:

DATA\_SET\_CONTACT

Children:

DATA\_SET\_CONTACT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Information for contacting data center for a particular data set.

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

ADDRESS, DATA\_CENTER\_LONGNAME, [DATA\_CENTER\_URL], EMAIL,

[FAX], [FIRST\_NAME], [LAST\_NAME], [MIDDLE\_INITIAL], PHONE

DATA\_URL

Maximum length:

**ODL Type:** Aggregate

Possible values:

Web URL providing additional data access.

Definition: **Parent Groups:** 

DATASET~1, DATASET~2, FTP\_BROWSE\_RESULT, GRANULE,

MEDIA\_FORMAT~1, PRODUCT\_RESULT, SUB\_REQUEST\_STATUS\_INFO

Children:

URL, URL\_COMMENT

DATASET\_COVERAGE

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Spatial and temporal coverage of full data set.

Used for documentation only. Not a part of dependent valids support files nor V0

in protocol messages.

Parent Groups:

DATASET~4

Children:

SPATIAL, TEMPORAL

DATASET\_HOME\_PAGE

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

URL for a dataset's home page (distinct from a Guide document).

Parent Groups:

DATASET~1, DATASET~2

Children:

URL, URL\_COMMENT

DATASET ID

Maximum length: 80

Possible values:

**ODL Type:** Sequence String

Definition:

Names of valid IMS datasets associated with requests or results.

Each value returned in INVENTORY\_RESULTS and DIRECTORY\_RESULTS

must match (case blind) IMS valids name for some data set.

Parent Groups:

BROWSE\_GRANULES, DAAC\_CONTACT\_ADDRESS, DATASET~1,

DATASET~2, DATASET~3, DIRECTORY\_SEARCH, GCMD\_SEARCH, IMAGE.

INVENTORY\_SEARCH, LINE\_ITEM, PACKAGE, PRODUCT\_DELIVERY,

SUB\_REQUEST\_STATUS\_INFO

Children:

DATASET ID~2

Maximum length: 80

Possible values:

**ODL Type:** String

Definition:

Name of dataset whose dependent valids are being provided.

Not used in V0 protocol messages.

Parent Groups:

DATASET~4

Children:

DATASET\_ORDER\_OPTIONS

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Indicates special order parameters for ordering dataset as a whole (including the

possibility of limiting the dataset to just granules in a particular time range or

geographic area)..

Used in a way similar to order or subset options but dataset-based ordering. Note that a geographic specification within DATASET\_ORDER\_OPTIONS would presumably be used to limit to whole granules within a geographic area; but there could also be a SUBSET\_OPTIONS to further subset the individual granules

ordered.

Parent Groups:

PACKAGE

Children:

[REQUIRED], SPECIALIZED\_CRITERIA~1

DATASET ORDER SPEC

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Order processing/generation parameters selected by user from

DATASET\_ORDER\_OPTIONS applicable to the dataset as a whole...

Parent Groups:

LINE\_ITEM

Children:

[SPECIALIZED\_CRITERIA~2]

DATASET~1

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Information about granules of a single data set in an inventory result.

Parent Groups:

INVENTORY\_RESULT

Children:

[BROWSE\_PRODUCT\_DESCRIPTION], [BROWSE\_URL], [CAMPAIGN], [COMMENT], [DATASET\_HOME\_PAGE], DATASET\_ID, [DATA\_URL],

[DAY\_NIGHT], [DATASET\_HOME\_PAGE], DATASET\_ID, [DATA\_URL], [DAY\_NIGHT], [EXTENDED\_CRITERIA\_USED], [GRANULE], [MD\_ENTRY\_ID], [MISC\_URL], [NUMBER\_OF\_GRANULE\_HITS], [PACKAGE], [PACKAGE\_ID], [PARAMETER~1], [PROCESSING\_LEVEL], [RESTRICTION], [SENSOR\_NAME], [SOURCE\_NAME], [SOURCE\_NA

[SOURCE\_NAME], [SPECIALIZED\_SEARCH\_URL], STATUS\_CODE,

[VALID\_ACCOUNT]

DATASET~2

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Data set information used to find directory information in GCMD.

Parent Groups:

DIRECTORY RESULT

Children:

[BROWSE\_URL], [DATASET\_HOME\_PAGE], DATASET\_ID, [DATA\_URL], MD\_ENTRY\_ID, [MISC\_URL], [ORG\_CENTER], [PACKAGE], [PACKAGE\_ID], [RANGE\_LOC], [SPECIALIZED\_SEARCH\_URL], [START\_DATE], [STOP\_DATE]

DATASET~3

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Directory information about a single dataset returned by ECS to ASTER GDS user.

(ASTER/ECS only.)

Parent Groups:

DIRECTORY RESULT

Children:

DATASET\_ID, [DATA\_SET\_CONTACT], DESCRIPTION, DISCIPLINE,

SENSOR\_NAME, SOURCE\_NAME, [SPATIAL\_COVERAGE], [START\_DATE],

[STOP\_DATE], TERM, TOPIC, VARIABLE

DATASET~4

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Contains dependent valids for a single data set being submitted by an archive.

Not used in V0 protocol messages.

Parent Groups:

**VALIDS** 

Children:

BROWSE, [CAMPAIGN], DATASET\_COVERAGE, DATASET\_ID~2,

[DATE\_AVAILABLE], [DAY\_NIGHT\_FLAG], [DEPENDENCY],

FTP\_PRODUCT\_AVAILABLE, GRANULE\_COVERAGE, MD\_ENTRY\_ID,

[PARAMETER~1], PROCESSING\_LEVEL, [SOURCE], [SENSOR]

DATE\_AVAILABLE

Maximum length:

Possible values:

**ODL Type:** String

Definition:

Date (in no particular format) when dataset will become available.

Not used in V0 protocol messages.

Parent Groups:

DATASET~4

DAY NIGHT

Maximum length: 1

Possible values: D, N

ODL Type: Symbol

Definition:

Flag requesting or specifying data gathered during daylight only or nighttime only.

Support not provided for this field by all data centers for all data sets.

Parent Groups:

DATASET~1, GRANULE, INVENTORY\_SEARCH

Children:

DAY\_NIGHT\_FLAG

Maximum length: 5

Possible values: "DAY", "NIGHT"

**ODL Type:** Sequence String

Definition:

Indicates whether dataset is wholly daytime data, nighttime, or both.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol messages.

Parent Groups:

DATASET~4

Children:

**DEPENDENCY** 

Maximum length:

**ODL Type:** Aggregate

Possible values: **Definition:** 

Groups of parameters, sources, and sensors that are logically dependent within a

dataset's valids. Presence in a dependency group or a DATASET~4 determines

what values are compatible for client selection.

Not used in V0 protocol messages.

Parent Groups:

Possible values:

DATASET-4

Children:

[PARAMETER-1], [SENSOR], [SOURCE]

DESCRIPTION

Maximum length: unlimited

**ODL Type: String** 

Definition:

Identifies the major emphasis of the content of the collection. This can be a long

textual description, therefore it is left unbounded at this time.

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

Maximum length:

**ODL Type:** Aggregate

Possible values: Definition:

DIRECTORY\_RESULT

Provides result of directory level query against data center.

V0 uses DATASET~2 and queries the GCMD for dataset information

corresponding to the MD\_ENTRY\_IDs. ASTER/ECS uses DATASET~3 to display

the information directly.

**Parent Groups:** 

Children:

DATASET~2, DATASET~3, DATA\_CENTER\_ID, MESSAGE\_ID, MONITOR,

NUMBER\_OF\_DATASETS, [PACKAGE], STATUS\_CODE,

[STATUS\_CODE\_COMMENT], VERSION

DIRECTORY\_SEARCH

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Provides data for directory level search of data center.

Parent Groups:

Children:

[AUTHENTICATOR], [CAMPAIGN], [DATA\_CENTER\_ID], [DATASET\_ID], [ECS\_AUTHENTICATOR], MESSAGE\_ID, MONITOR, [PARAMETER~1],

[PROCESSING\_LEVEL], [RANGE\_LOC], [SENSOR\_NAME], [SOURCE\_NAME],

[START\_DATE], [STOP\_DATE], VERSION

DISCIPLINE

Maximum length: 24

Possible values:

ODL Type: Sequence String

Definition:

Keyword(s) used to describe the general discipline area of the collection. A collection can conceivably cover several disciplines. Examples include Earth

Science, Space Science, etc.

(ASTER/ECS only.)

Parent Groups:

Possible values:

DATASET~3

Children:

DISCRETE

Maximum length: 30

**ODL Type:** Sequence String

Definition:

Labels for individual colorbar entries and/or to specify discrete values.

Actually sequence of pairs of integer, string, integer, string... Each value/text pair specifies a color value (0 through 255) and its corresponding text label. If a discrete value is in one of the colorbar ranges, it will be labeled on the colorbar;

otherwise, a discrete color block is created and labeled.

Parent Groups:

**LEGEND** 

Children:

EAST\_LONGITUDE

Maximum length: 9

Possible values: -180.0000 to +180.0000

**ODL Type: Real** 

Definition:

Easternmost longitude for a range on the globe.

Parent Groups:

RANGE LOC

Children:

**EASTBOUNDINGCOORDINATE** 

Maximum length: 11

Possible values: -180.0 to +180.0

ODL Type: Real

Definition:

Easternmost limit of coverage expressed in longitude.

(ASTER/ECS only.)

Parent Groups:

SPATIAL\_COVERAGE

**ECS\_AUTHENTICATOR** 

Maximum length: 100

Possible values:

ODL Type: String

Definition:

Optional in every outgoing client message. Used for interfacing with ECS

registration.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, BROWSE\_REQUEST,

DIRECTORY\_SEARCH, INVENTORY\_SEARCH,

PRODUCT\_CANCEL\_REQUEST, PRODUCT\_REQUEST,

PRODUCT\_STATUS\_REQUEST, QUIT

Children:

**EMAIL** 

Maximum length: 128

Possible values:

**ODL Type: String** 

Definition:

Internet e-mail address for associated person.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

DATA\_SET\_CONTACT, SHIPPING\_ADDRESS

Children:

**ERROR** 

Maximum length: 80

Possible values:

**ODL Type:** Sequence String Data center-provided text information about VALID\_ACCOUNT details.

Parent Groups: VALID\_ACCOUNT

Children:

Definition:

EST COST

Maximum length: 16

ODL Type: Real

Definition:

Estimated cost of package, calculated from package's APPROX\_COST.

Parent Groups:

LINE\_ITEM

Children:

ESTIMATED PRICE

Maximum length: 10

Possible values:

ODL Type: Integer

Definition:

Estimated total price of products.

(ASTER/ECS only.) The unit is Yen.

Parent Groups:

PRICE\_ESTIMATE\_RESULT

EXTENDED\_CRITERIA AVAIL

Maximum length: 80

Possible values:

**ODL Type:** Sequence String

Definition:

Extended search criteria applicable to a dataset.

Data centers provide EXTENDED\_CRITERIA\_AVAIL as a part of their valids submission to give CRITERIA\_NAMEs of the EXTENDED\_CRITERIA that may be

used for each dataset. Not used in V0 protocol messages.

Parent Groups:

DATASET~4

Children:

EXTENDED\_CRITERIA\_USED

Maximum length: 80

Possible values: CRITERIA\_NAMEs from

**ODL Type:** Sequence String

INVENTORY\_SEARCH

Definition:

Extended search criteria used in search at data center.

Parent Groups:

DATASET~1

Children:

EXTENDED\_SEARCH

Maximum length:

Possible values:

**ODL** Type: Aggregate

Definition:

Extended criteria requested by user for search.

Multiple EXTENDED\_SEARCHs within an INVENTORY\_SEARCH should be ANDed along with standard fields. Multiple SPECIALIZED\_CRITERIA~2 within the EXTENDED\_SEARCH aggregate are normally variants to be ORed (unless

several are combined to make a multiple valued criteria).

**Parent Groups:** 

INVENTORY\_SEARCH

Children:

SPECIALIZED\_CRITERIA~2

EXTENDED\_SEARCH\_MASTER\_LIST

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

List of all approved EXTENDED\_SEARCH alternatives, maintained by science

team.

Not used in V0 protocol messages. Used by clients/gateways to present search

alternatives.

Parent Groups:

Children:

[SPECIALIZED\_CRITERIA~1]

FAX

Maximum length: 22

Possible values:

**ODL Type:** String

Definition:

Fax phone number for associated person.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

DATA\_SET\_CONTACT, SHIPPING\_ADDRESS

FIRST NAME

Maximum length: 20

Possible values:

**ODL Type:** String

Definition:

First name for addressed person.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DATA\_SET\_CONTACT,

SHIPPING\_ADDRESS

Children:

FORMAT\_ID

Maximum length: 30

**ODL Type: String** 

Possible values: Definition:

A valid value for media distribution format for this package.

MEDIA\_FORMAT~2 is one of the FORMAT\_ID strings listed in the

MEDIA\_FORMAT~1 group.

Parent Groups:

MEDIA, MEDIA\_FORMAT-1, SUB\_REQUEST\_STATUS\_INFO

Children:

FTP

Maximum length: 5

Possible values: "yes", "true", "no", "false", ""

**ODL Type:** String

**Definition:** 

Indicates whether data center provides ftp browse for some granules of this

Not used in V0 protocol messages.

Parent Groups:

**BROWSE** 

Children:

FTP BROWSE\_RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Results from a BROWSE\_REQUEST for BROWSE\_TYPE = FTP\_ONLY.

Parent Groups:

Children:

DAAC\_CONTACT\_ADDRESS, DATA\_CENTER\_ID, [DATA\_URL],

MESSAGE\_ID, MONITOR, STATUS\_CODE, [STATUS\_CODE\_COMMENT],

TOTAL\_FILE\_SIZE, VERSION

FTP PRODUCT\_AVAILABLE

Maximum length: 5

Possible values: "yes", "true", "no", "false", ""

**ODL Type:** String

Definition:

Indicates whether the archive delivers dataset products via ftp.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol messages.

Parent Groups:

G\_RING LOC

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Granule coverage described by one or more polygons, each of at least 3 sides and which contain zero or more holes, each of which is a polygon of at least 3 sides.

All connecting lines are presumed to be arcs of great circles.

For backward compatibility, coverage must also be described by either a

RANGE\_LOC or POLYGON\_LOC~2.

Parent Groups:

GRANULE

Children:

CENTROID\_LAT, CENTROID\_LON, OUTER\_RING

GCMD SEARCH

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Internal ODL tree used in GCMD search.

Not a part of dependent valids support files nor in V0 protocol messages.

Parent Groups:

Children:

Definition:

DATASET\_ID, DATA\_CENTER\_ID, MD\_ENTRY\_ID, ORG\_CENTER

**GLOBAL GRANULE** 

Maximum length: 1 ODL Type: Symbol

Possible values: Y

Granule has global coverage.

Used in place of xxx\_LOC keywords for granules with global coverage.

Parent Groups:

GRANULE

Children:

GLOBAL\_GRANULES\_ONLY

Maximum length: 1

Possible values: Y

ODL Type: Symbol

Definition:

Only granules with global coverage should be returned in the result.

Parent Groups: INVENTORY SEARCH

Children:

GRANULE

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Collection of metadata about a single data granule.

If SENSOR\_NAME and SOURCE\_NAME are not given in DATASET~1, they must be included in GRANULE. If GRANULE contains no PACKAGE\_ID, it cannot be

ordered.

Parent Groups:

DATASET~1

Children:

[BROWSE\_TYPE], [BROWSE\_URL], [CAMPAIGN], [COMMENT], [DATA\_URL],

[DAY\_NIGHT], [G\_RING\_LOC], GLOBAL\_GRANULE, GRANULE ID.

[INTEGRATED\_BROWSE\_ONLY], [PACKAGE\_ID], [PARAMETER~1],

[PATH\_ROW\_LOC], POINT\_LOC, POLYGON\_LOC~2, [PROCESSING\_LEVEL],

[QUADRANT\_CLOUD\_COVERAGE], RANGE\_LOC,

[SCENE\_CLOUD\_COVERAGE], [SENSOR\_NAME], [SOURCE\_NAME]. [SPECIALIZED\_RESULTS], START\_DATE, STOP\_DATE, [XAR\_ID]

GRANULE\_COVERAGE

Maximum length:

Possible values:

**ODL Type:** Aggregate

**Definition:** 

Spatial and temporal coverage of individual granules of a dataset.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol messages.

Parent Groups:

DATASET~4

Children:

SPATIAL, TEMPORAL

GRANULE ID

Maximum length: 50

**ODL Type:** String

Definition:

Granule's ID from inventory.

Parent Groups:

Possible values:

BROWSE\_GRANULES, GRANULE, IMAGE

Children:

GRANULE\_ID\_REQ

Maximum length: 80

Possible values:

**ODL Type:** Sequence String

Definition:

1D of granule requested in search message (possibly containing wild card

characters).

If GRANULE\_ID\_REQ is present in INVENTORY\_SEARCH, DATASET\_ID is also required; if omitted, geographic specification (GLOBAL\_GRANULES\_ONLY,

POINT\_LOC, POLYGON\_LOC~1, or RANGE\_LOC) is required.

Parent Groups:

INVENTORY SEARCH

Children:

GRANULE LIMIT

Maximum length: 10

Possible values: 1 to 2147483647

ODL Type: Integer

Definition: Parent Groups: INVENTORY\_SEARCH

Number of granules requested per dataset.

Children:

**IMAGE** 

Maximum length:

Possible values:

**ODL Type:** Aggregate

Provides attributes of an integrated browse (image) file being transferred.

Parent Groups:

INTEGRATED\_BROWSE\_RESULT

Children:

Definition:

DATASET\_ID, GRANULE\_ID, IMAGE\_ID, IMAGE\_SIZE

IMAGE\_ID

Maximum length: 50

Possible values:

**ODL Type:** String

Definition:

Image identifier from data center.

Parent Groups:

**IMAGE** 

IMAGE SIZE

Possible values: 1 to 2147483647

Definition:

Image size in bytes.

Parent Groups:

inage size in L

Children:

**IMAGE** 

IMS\_STAFF

Maximum length: 10

Maximum length: 10

**ODL Type:** String

Possible values:

ODL Type: String

Definition:

Sent with every client message. Usually blank unless the client was run by a

member of the IMS Staff.

In the X client, copied from the IMS staff environment variable (as set in the shell script). In the Web gateway, set to "1" if the group "WWW\_DEVELOPER" is

present when loaded in the User Preferences.

Parent Groups:

**VERSION** 

Children:

INFO\_PROMPT

Maximum length: 80

ODL Type: String

Definition:

Data center-supplied string to describe use of "additional info" when ordering.

Data center can provide usage or point to URL for help on ADDITIONAL\_INFO's

use.

Parent Groups:

Possible values:

**PACKAGE** 

Children:

Maximum length: 12

INITIAL\_USER\_KEY
Possible values:

**ODL Type:** String

Definition:

Original password used at the data center when first registering a user for data

center-hosted clients.

Set by shell for data center-hosted clients. Originally intended to help user support groups distinguish individuals with similar names. May not be used much any

more.

Parent Groups:

PRODUCT\_REQUEST

Children:

INITIATOR\_REQUEST\_ID

Maximum length: 30

Possible values:

**ODL Type:** Sequence String

Definition:

ID assigned by the ASTER Gateway or ASTER GDS IMS to track Product Request. This is a single value when passed in a Product Request message. (ASTER/ECS only.) When ECS client submits Product Request, ASTER Gateway generates this ID. When ASTER GDS client submits Product Request, ASTER

GDS IMS generates this ID.

Parent Groups:

ORDER\_STATUS\_INFO, PRODUCT\_CANCEL\_REQUEST,

PRODUCT\_CANCEL\_RESULT, PRODUCT\_REQUEST,

PRODUCT\_STATUS\_REQUEST

INNER\_RING

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Data describing a ring (polygon) that is a hole in an OUTER\_RING.

LATITUDE and LONGITUDE must be sequences of three or more values; both must have the same number of values. Order of points must be clockwise from a

satellite view.

Parent Groups:

OUTER\_RING

Children:

LATITUDE, LONGITUDE

INTEGRATED

Maximum length: 5

Possible values: "yes", "true", "no", "false", ""

**ODL Type:** String

**Definition:** 

Indicates whether data center provides integrated browse for some granules of this

dataset.

Not used in V0 protocol messages.

Parent Groups:

**BROWSE** 

Children:

INTEGRATED\_BROWSE\_ONLY

Maximum length: 1

Possible values: Y or N

**ODL Type:** Symbol

Definition:

Indicates that an integrated browse product is available for this granule, but not an

ftp browse product. If omitted, N is assumed.

Used to disambiguate BROWSE\_TYPE = Y in GRANULE. Originally integrated browse availability implied ftp as well, so no "integrated only" was provided for. This field was added rather than a new value for BROWSE\_TYPE to provide

greater backward compatibility.

Parent Groups:

**GRANULE** 

Children:

INTEGRATED\_BROWSE\_RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Provides result of BROWSE\_REQUEST where BROWSE\_TYPE = Y.

Parent Groups:

Children:

DATA\_CENTER\_ID, IMAGE, [LAST\_BROWSE], MESSAGE\_ID, MONITOR,

STATUS\_CODE, [STATUS\_CODE\_COMMENT], [VERSION]

INVENTORY RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Provides result set from inventory query.

Parent Groups:

Children:

[DATASET~1], DATA\_CENTER\_ID, MESSAGE\_ID, MONITOR, [NUMBER\_OF\_DATASETS], [PACKAGE], STATUS\_CODE,

[STATUS\_CODE\_COMMENT], [UNMAPPED\_FIELD], [VERSION]

INVENTORY\_SEARCH

Possible values:

Maximum length:

**ODL Type:** Aggregate

Definition:

Provides data to perform inventory query.

Parent Groups:

Children:

[AUTHENTICATOR], [BROWSE\_ONLY], [CAMPAIGN], [CLOUD\_COVERAGE], [DATA\_CENTER\_ID], [DATASET\_ID], [DAY\_NIGHT], [ECS\_AUTHENTICATOR], [EXTENDED\_SEARCH], [GLOBAL\_GRANULES\_ONLY], [GRANULE\_ID\_REQ], GRANULE\_LIMIT, MESSAGE\_ID, MONITOR, [PARAMETER~1],

[PATH\_ROW\_LOC], [POINT\_LOC], [POLYGON\_LOC~1],

[PROCESSING\_LEVEL], [RANGE\_LOC], [SENSOR\_NAME], [SOURCE\_NAME],

[START\_DATE], [START\_DAY\_OF\_YEAR], [STOP\_DATE],

[STOP\_DAY\_OF\_YEAR], VERSION, [XAR\_ID]

LABEL.

Possible values:

Definition:

Maximum length: 64 **ODL Type:** String

May be specified to provide a one-line descriptive label for the browse image.

This entry is optional and is most often used when there is more than one browse

image in a single HDF browse image file.

Parent Groups:

LEGEND

Children:

LAST BROWSE

Definition:

Possible values: 0, 1

ODL Type: Symbol Indicates whether last integrated browse in a series is being transmitted.

(ASTER/ECS only.) If LAST\_BROWSE=0 is present, then the image which follows is not the last browse image in the sequence; an ACK is required by the client, and following that the server will send another INTEGRATED\_BROWSE\_RESULT and image file. If LAST\_BROWSE=1 or is omitted, the image that follows is the

last (or only) one to be transmitted.

Parent Groups:

INTEGRATED\_BROWSE\_RESULT

Children:

LAST\_NAME

Definition:

Possible values:

Last name for addressed person.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DATA\_SET\_CONTACT,

SHIPPING\_ADDRESS

Children:

LATITUDE

Maximum length: 8

Maximum length: 20

**ODL Type:** String

Maximum length: 1

Possible values: -90.0000 to +90.0000

ODL Type: Sequence Real

Definition:

Latitude for a point or sequence of points on the globe.

Parent Groups:

INNER\_RING, OUTER\_RING, POINT\_LOC, POLYGON\_LOC~1,

POLYGON LOC~2

LEGEND

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Description of a legend for a RAS8 image within an HDF browse file.

Should not be in BROWSE\_HEADER structure, but associated with corresponding

image.

Parent Groups:

Children:

[COLORBAR], DISCRETE, [LABEL], [UNITS]

LINE ITEM

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Information needed for ordering a package.

Parent Groups:

PRODUCT\_REQUEST

Children:

[ADDITIONAL\_INFO], [BILLING\_ID], DATASET\_ID, [DATASET\_ORDER\_SPEC], [EST\_COST], MEDIA\_FORMAT~2, MEDIA\_TYPE~2, [ORDER\_SPEC],

PACKAGE\_ID, PROCESSING\_OPTIONS, [SUBSET\_SPEC]

LONGITUDE

Maximum length: 9

Possible values: -180,0000 to +180,0000

ODL Type: Sequence Real

Definition:

Longitude for a point or sequence of points on the globe.

Parent Groups:

INNER\_RING, OUTER\_RING, POINT\_LOC, POLYGON\_LOC~1,

POLYGON\_LOC~2

Children:

MAP\_PROJECTION\_TYPE

Maximum length: 80

Possible values: PLATE\_CARREE,

**ODL Type:** String

NORTH\_POLAR\_STEREOGRAPHIC,

ORTHOGRAPHIC,

Definition:

Map projection type under which polygon was defined.

Parent Groups:

POLYGON LOC~1

Children:

MAX LEN

Maximum length: 5

ODL Type: Integer

Possible values: Definition:

Maximum length for an input character string

SOUTH\_POLAR\_STEREOGRAPHIC

Parent Groups:

SPECIALIZED CRITERIA~1

Children:

MD ENTRY ID

Maximum length: 31

Possible values:

**ODL Type:** String

Definition:

Global Change Master Directory entry (DIF) id.

Parent Groups: DATASET~1, DATASET~2, DATASET~4, GCMD\_SEARCH

MEDIA

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Media information for Product Request.

(ASTER/ECS only.) ASTER groups product orders by media type. This aggregate

is similar to V0 LINE\_ITEM but assures all products for the same media

type/format are grouped together within the ODL message.

Parent Groups:

PRICE\_ESTIMATE\_REQUEST, PRODUCT\_REQUEST

Children:

FORMAT\_ID, PRODUCT\_DELIVERY, TYPE\_ID

MEDIA FORMAT~1

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Description of distribution formats available for this package and media type.

MEDIA\_FORMAT~2 is one of the FORMAT\_ID strings listed in the

MEDIA\_FORMAT~1 group.

Parent Groups:

MEDIA\_TYPE~1

Children:

APPROX\_COST, [DATA\_URL], FORMAT\_ID

MEDIA FORMAT-2

Maximum length: 30

Possible values:

**ODL Type:** String

Definition:

Media format selected by user for order on this line item.

MEDIA\_FORMAT~2 is one of the FORMAT\_ID strings listed in the

MEDIA\_FORMAT~1 group.

Parent Groups:

LINE\_ITEM

Children:

MEDIA TYPE~1

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Description of media on which package can be distributed.

MEDIA\_TYPE~2 is one of the TYPE\_ID strings listed in the MEDIA\_TYPE~1

group.

Parent Groups:

PROCESSING OPTION

Children:

MEDIA\_FORMAT~1, NUMBER\_OF\_MEDIA\_FORMAT, TYPE\_ID

MEDIA TYPE~2

Maximum length: 20

Possible values:

**ODL Type:** String

Definition:

Medium selected by use for this line item.

MEDIA\_TYPE~2 is one of the TYPE\_ID strings listed in the MEDIA\_TYPE~1

group.

Parent Groups:

LINE\_ITEM

MESSAGE\_ID

Maximum length: 30

Possible values:

**ODL Type:** String

Definition:

Identifier used to track messages.

Generated by the client or Web gateway.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, ACCOUNT\_STATUS\_RESULT, ACKNOWLEDGE, BROWSE\_REQUEST, DIRECTORY RESULT.

DIRECTORY\_SEARCH, FTP\_BROWSE\_RESULT,

INTEGRATED\_BROWSE\_RESULT, INVENTORY RESULT. INVENTORY\_SEARCH, PRICE\_ESTIMATE\_REQUEST.

PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL\_REQUEST,

PRODUCT\_CANCEL\_RESULT, PRODUCT\_REQUEST, PRODUCT\_RESULT.

PRODUCT\_STATUS\_INFO, PRODUCT\_STATUS\_REQUEST, QUIT

Children:

MIDDLE\_INITIAL

Maximum length: 1

Possible values:

**ODL Type:** String

Definition:

Middle initial of name for this address.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DATA\_SET\_CONTACT,

SHIPPING\_ADDRESS

Children:

MISC URL

Maximum length:

**ODL Type:** Aggregate

Definition:

URL for additional information or services for a dataset.

Parent Groups:

Possible values:

DATASET~1, DATASET~2, PRODUCT\_RESULT

Children:

URL, URL\_COMMENT

MONITOR

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Statistics field for this message.

Parent Groups:

ACCOUNT\_STATUS\_REQUEST, ACCOUNT\_STATUS\_RESULT, ACKNOWLEDGE, BROWSE\_REQUEST, DIRECTORY RESULT.

DIRECTORY\_SEARCH, FTP\_BROWSE\_RESULT,

INTEGRATED\_BROWSE\_RESULT, INVENTORY\_RESULT. INVENTORY\_SEARCH, PRICE\_ESTIMATE\_REQUEST,

PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL\_REQUEST,

PRODUCT\_CANCEL\_RESULT, PRODUCT\_REQUEST, PRODUCT\_RESULT,

PRODUCT\_STATUS\_INFO, PRODUCT\_STATUS\_REQUEST, QUIT

Children:

[RX\_CLIENT], [RX\_SERVER], [SESSION\_ID], TX\_CLIENT, [TX\_SERVER]

NORTH LATITUDE

Maximum length: 8

Possible values: -90.0000 to +90.0000

ODL Type: Real

Definition:

Northernmost latitude for a range on the globe.

Parent Groups:

RANGE\_LOC

NORTHBOUNDINGCOORDINATE

Possible values: -90.0 to +90.0

Maximum length: 11

Definition:

ODL Type: Real Northernmost coordinate of the limit of coverage expressed in geodetic latitude.

(ASTER/ECS only.)

Parent Groups:

SPATIAL\_COVERAGE

Children:

NUMBER\_OF\_DATASETS

Maximum length: 10

Possible values: 1 to 2147483647

ODL Type: Integer

Definition:

Number of data sets being returned in a query result set.

Parent Groups:

DIRECTORY\_RESULT, INVENTORY\_RESULT

Children:

NUMBER\_OF\_GRANULE\_HITS

Maximum length: 10

Possible values: 1 to 2147483647

ODL Type: Integer

Definition:

Number of granules (or one more than the number) for this dataset being returned

in full query result set.

Should be present only in the last chunk of granules for a data set. Used to signal all granules have been returned. Some archives send value one greater than number actually returned to flag more granules were available than were returned.

Parent Groups:

DATASET~1

Children:

NUMBER\_OF\_GRANULES

Maximum length: 10

Possible values: 1 to 2147483647

ODL Type: Integer

Definition:

The number of granules included in the package.

Use of this field in SUB\_REQUEST\_STATUS\_INFO is not well defined.

Parent Groups:

PACKAGE, SUB\_REQUEST\_STATUS\_INFO

Children:

NUMBER\_OF\_MEDIA\_FORMAT

Maximum length: 10

Possible values:

ODL Type: Integer

Definition:

Number of MEDIA\_FORMAT~1 groups to follow.

Parent Groups:

MEDIA TYPE~1

Children:

NUMBER\_OF\_MEDIA TYPE

Maximum length: 10

**ODL Type: Integer** 

Possible values:

Number of MEDIA\_TYPE~1 groups to follow.

**Definition:** Parent Groups:

PROCESSING\_OPTION

NUMBER\_OF\_OPTIONS

Maximum length: 10

Possible values: 1 to 2147483647

ODL Type: Integer

Definition:

Number of PROCESSING\_OPTION groups to follow.

Parent Groups:

PACKAGE

Children:

OPTION ID

Maximum length: 30

**ODL Type:** String

Possible values:

Description of processing option available for this package.

In spite of the name, PROCESSING OPTIONS is one of the OPTION\_ID strings

listed in the PROCESSING\_OPTION groups.

Parent Groups:

PROCESSING\_OPTION

Children:

Definition:

ORDER OPTIONS

Maximum length:

**ODL Type:** Aggregate

Possible values: Definition:

Indicates special order product generation parameters for a package can be

selected.

Used in a way similar to subset options but for processing other than subsetting.

Parent Groups:

PACKAGE

Children:

[REQUIRED], SPECIALIZED\_CRITERIA~1

ORDER SPEC

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Order processing/generation parameters selected by user.

Parent Groups:

LINE ITEM

Children:

[SPECIALIZED\_CRITERIA-2]

ORDER\_STATUS\_CODE

Maximum length: 10

Possible values: PROPOSED, ACCEPTED, PROCESSING,

**ODL Type: String** 

CANCELED, FAILED, COMPLETED, REJECTED, ON HOLD, CLOSED

Definition:

Provides the status for a order status request.

Original values proposed by ASTER/ECS: PROPOSED (received by data center), ACCEPTED (received by DADS and validated), PROCESSING (being processed for delivery), CANCELED (cancelled at user request), FAILED (could not be processed due to error condition), COMPLETED (order processing completed successfully), REJECTED (rejected by data center). V0 IMS has added ON HOLD (not being processed for some reason) and CLOSED (order closed by data center).

Parent Groups:

ORDER\_STATUS\_INFO, PRODUCT\_CANCEL\_RESULT

ORDER\_STATUS\_COMMENT

Possible values:

Maximum length: 1000

**ODL Type:** Sequence String

Definition:

Ancillary information concerning status or cancellation of a product request.

ASTER ICD specified this as a 128-character string. VO IMS raised it to 1000 and

made it a sequence string to allow additional detail.

Parent Groups:

ORDER\_STATUS\_INFO, PRODUCT\_CANCEL\_RESULT

Children:

ORDER\_STATUS\_INFO

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Status on an order for (usually) a single request id.

ASTER/ECS uses INITIATOR\_REQUEST\_ID; V0 uses REQUEST\_ID~2.

Parent Groups:

PRODUCT\_STATUS\_INFO

Children:

[COMPLETION\_DATE], INITIATOR\_REQUEST\_ID, ORDER\_STATUS\_CODE, [ORDER\_STATUS\_COMMENT], [PLANNED\_COMPLETION\_DATE], PRICE,

RECEIVE\_DATE, REQUEST\_ID~2, SHIPPING\_ADDRESS,

SUB\_REQUEST\_STATUS\_INFO

ORG\_CENTER

Definition:

Maximum length: 31

ODL Type: String

Possible values:

Originating center for MD search.

Obsolete; being dropped.

Parent Groups:

Possible values:

DATASET~2, GCMD\_SEARCH

Children:

ORGANIZATION

Maximum length: 60

ODL Type: String

Definition:

Organization for address.

On DAAC\_CONTACT\_ADDRESS this is required field. On others, it is optional

from profile.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

SHIPPING\_ADDRESS

Children:

**OUTER RING** 

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Data describing a ring (polygon) that is part of a G-ring, containing zero or more

INNER\_RING holes.

LATITUDE and LONGITUDE must be sequences of three or more values; both must have the same number of values. Order of points must be clockwise from a

satellite view.

Parent Groups:

G\_RING\_LOC

Children:

[INNER\_RING], LATITUDE, LONGITUDE

**PACKAGE** 

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

A collection of granules which can be ordered from an archive.

All PACKAGE groups can be included before any DATASET~1 group, or they may be intermixed; or PACKAGE groups may be included inside the corresponding DATASET~1 groups. Package information in DIRECTORY\_RESULT and

DATASET~2 is for dataset-based ordered.

Parent Groups:

DATASET~1, DATASET~2, DIRECTORY\_RESULT, INVENTORY\_RESULT

Children:

COMMENT, DATASET\_ID, [DATASET\_ORDER\_OPTIONS].

DATA\_CENTER\_ID, [INFO\_PROMPT], NUMBER\_OF\_GRANULES. NUMBER\_OF\_OPTIONS, [ORDER\_OPTIONS], PACKAGE\_ID,

PROCESSING\_OPTION, [SUBSET\_OPTIONS]

PACKAGE\_CONTACT\_ADDRESS

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Contact information for the particular package where there are multiple contacts at

the Data Center. (Used mostly by international partners.)

Proposed rename of DAAC\_CONTACT\_ADDRESS; never processed. Now

obsolete.

Parent Groups:

Children:

PACKAGE ID

Maximum length: 50

Possible values: Identifier, "\*\*, or "\*xxx"

**ODL Type:** Sequence String

Definition:

Name of packages in which this granule or dataset can be ordered, or name of

package being described or ordered.

Special value of "\*" allows a PACKAGE group to be used where granules can be ordered individually, all of which have the same characteristics. In such cases, the GRANULE\_ID will be used as the PACKAGE\_ID in the LINE\_ITEM. "\*xxx" is an asterisk followed by an identifier, which allows two or more \*-type sets of package characteristics to be defined. At the time of this writing, \*xxx package ids are being

tested, but have not been fully deployed.

Parent Groups:

DATASET~1, DATASET~2, GRANULE, LINE\_ITEM, PACKAGE,

PRODUCT\_DELIVERY

Children:

PACKAGE SIZE

Maximum length: 10

Possible values:

ODL Type: String

Definition:

String describing the size of the packages perhaps with units, e.g., "127 MB.".

Parent Groups:

PROCESSING\_OPTION

PARAMETER~1

Possible values:

Maximum length: 80

**ODL Type:** Sequence String

Definition:

Geophysical term(s) associated with a dataset, granule, or search.

PARAMETER~1 is required for each GRANULE, but may be given instead at the

DATASET~1 level if it is the same for all GRANULEs in the DATASET~1.

Parent Groups:

DATASET~1, DATASET~4, DEPENDENCY, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

PARAMETER~2

Maximum length:

**ODL Type:** Aggregate

Possible values: Definition:

Processing parameters for product generation

(ASTER/ECS only.)

Parent Groups:

PRODUCT\_GENERATION

Children:

PGR\_CODE, PGR\_VALUE

**PATH** 

Possible values: 1 to 251

Maximum length: 4

ODL Type: Sequence Integer

Definition:

WRS satellite path (single value or range).

Use one value for a single satellite path, two for a range. Any additional values will

be ignored.

Parent Groups:

PATH\_ROW\_LOC

Children:

PATH\_ROW LOC

**Definition:** 

Possible values:

Maximum length:

**ODL Type:** Aggregate

Satellite path and data-take row from Worldwide Reference System developed for

Landsat data.

If selected by user for search, always accompanied by another xxx\_LOC as well. If returned by data center for coverage, should be accompanied by another

XXX\_LOC.

Parent Groups:

Possible values:

GRANULE, INVENTORY\_SEARCH

Children:

PATH, ROW, WRS\_TYPE

PGR\_CODE

Maximum length: 16

ODL Type: String

Definition:

TBD.

(ASTER/ECS only.) The possible value of keywords in "PARAMETER~1 group" is

defined by Valids. (This appears to be intended for processing options; ASTER/ECS may want to consider the ORDER\_OPTIONS capability being

inserted for ASF, since it is much more flexible.)

Parent Groups:

PARAMETER~2

PGR\_VALUE

Maximum length: TBD

Possible values:

Definition:

TBD.

**ODL Type: TBD** 

(ASTER/ECS only.) The possible value of keywords in "PARAMETER~1 group" is

defined by Valids. (This appears to be intended for processing options: ASTER/ECS may want to consider the ORDER\_OPTIONS capability being

inserted for ASF, since it is much more flexible.)

Parent Groups:

PARAMETER~2

Children:

**PHONE** 

Maximum length: 22

ODL Type: String

Possible values: Definition:

Voice telephone number of associated person.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

DATA\_SET\_CONTACT, SHIPPING\_ADDRESS

Children:

PLANNED\_COMPLETION\_DATE

Possible values: yyyy-mm-dd

Maximum length: 10

**ODL Type:** String

**Definition:** 

Date of expected completion for product order.

Parent Groups:

ORDER STATUS INFO

Children:

POINT LOC

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Single point on the globe.

Parent Groups:

GRANULE, INVENTORY\_SEARCH, SPECIALIZED\_CRITERIA~2

Children:

LATITUDE, LONGITUDE

POLE\_INCLUDED

Maximum length: 1

Possible values: N. S. B.

ODL Type: Symbol

Definition:

Pole included in polygon (quadrilateral) region.

Field omitted if neither pole included. Some clients cannot handle B (both poles).

Parent Groups:

POLYGON\_LOC~1, POLYGON\_LOC~2

Children:

POLYGON LOC~1

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Group of four latitude longitude pairs describing the search area.

The V0 IMS recognizes only four-sided polygons (quadrilaterals).

Parent Groups:

INVENTORY\_SEARCH, SPECIALIZED CRITERIA~2

Children:

LATITUDE, LONGITUDE, MAP\_PROJECTION\_TYPE, [POLE\_INCLUDED],

TANGENT\_LATITUDE, TANGENT\_LONGITUDE

POLYGON LOC~2

Possible values:

Maximum length:

**ODL Type:** Aggregate

Definition:

Group of four latitude longitude pairs describing a granule's coverage.

The V0 IMS recognizes only four-sided polygons (quadrilaterals).

Parent Groups:

GRANULE

Children:

CENTROID\_LAT, CENTROID\_LON, LATITUDE, LONGITUDE,

[POLE\_INCLUDED]

PREDICTED\_COMPLETION\_DATE

Maximum length: 5

Possible values: 0 to 65335

ODL Type: Integer

Definition:

Estimated number of days until product is ready for delivery. (ASTER/ECS only.)

Parent Groups:

PRICE\_ESTIMATE RESULT

Children:

PRICE

Maximum length: 10

Possible values:

ODL Type: Real

Estimated total price of products.

The unit is Yen for ECS/ASTER protocol. The unit is US\$ in VO.

Parent Groups:

Definition:

ORDER\_STATUS\_INFO

Children:

PRICE COMMENT

Maximum length: 128

Possible values:

**ODL Type:** Sequence String

Definition:

Additional information on price calculation (algorithm, etc.).

(ASTER/ECS only.)

Parent Groups:

PRICE\_ESTIMATE\_RESULT

Children:

PRICE\_ESTIMATE\_REQUEST

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Requests estimated total price of products that user is about to order.

(ASTER/ECS only.) This request is submitted prior to Product Request in

ECS/ASTER communication.

Parent Groups:

Children:

DATA\_CENTER\_ID, MEDIA, MESSAGE\_ID, MONITOR, VERSION

PRICE\_ESTIMATE\_RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Estimated total price of products for user order.

(ASTER/ECS only.)

Parent Groups:

Children:

DATA\_CENTER\_ID, ESTIMATED\_PRICE, MESSAGE\_ID, MONITOR,

PREDICTED\_COMPLETION\_DATE, [PRICE\_COMMENT], STATUS\_CODE,

[STATUS\_CODE\_COMMENT], VERSION

PROCESSING\_DATA CENTER

Maximum length: 10

Possible values:

**ODL Type:** String

Definition:

Data center which is handling a processing request.

Returned by ECS to ASTER.

Parent Groups: SUB\_REQUEST\_STATUS\_INFO

Children:

PROCESSING\_LEVEL

Maximum length: 2

Possible values: 0, 1, 1a, 1b, 2, 3, 4

**ODL Type:** Symbol or Sequence

String

Definition:

Level to which data has been processed associate with a dataset, granule, or

Search can specify one or more; DATASET~1 or GRANULE normally specifies only single value. If same for all GRANULEs of DATASET~1, can be given at DATASET~1 level. Usually SYMBOL for single value, sequence string if more

than one.

Parent Groups:

DATASET~1, DATASET~4, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

PROCESSING\_OPTION

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Repeating group listing options available for ordering this package.

In spite of the name, PROCESSING\_OPTIONS is one of the OPTION\_ID strings

listed in the PROCESSING\_OPTION groups.

**Parent Groups:** 

**PACKAGE** 

Children:

MEDIA\_TYPE~1, NUMBER\_OF\_MEDIA\_TYPE, OPTION\_ID, PACKAGE\_SIZE

PROCESSING\_OPTIONS

Maximum length: 30

Possible values:

**ODL Type:** String

Definition:

Processing option selected by user for this LINE\_ITEM.

In spite of the name, PROCESSING\_OPTIONS is one of the OPTION\_ID strings

listed in the PROCESSING\_OPTION groups.

Parent Groups:

LINE\_ITEM

Children:

PRODUCT\_CANCEL\_REQUEST

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Requests cancellation of previous product request.

Parent Groups:

Children:

[AUTHENTICATOR], [ECS\_AUTHENTICATOR], INITIATOR\_REQUEST\_ID,

MESSAGE\_ID, MONITOR, REQUEST\_ID~2, SUB\_REQUEST\_ID, VERSION

PRODUCT CANCEL RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Response to cancel request.

From ASTER GDS, a successful return code does not imply that the request will be cancelled; it simply means that ASTER GDS received the request to cancel. The user will have to check the Product Request Status periodically to see if it

indeed gets cancelled.

Parent Groups:

Children:

DATA\_CENTER\_ID, INITIATOR\_REQUEST\_ID, MESSAGE\_ID, MONITOR, [ORDER\_STATUS\_CODE], [ORDER\_STATUS\_COMMENT], REQUEST\_ID~2, STATUS\_CODE, [STATUS\_CODE\_COMMENT], [SUB\_REQUEST\_INFO],

VERSION

PRODUCT\_DELIVERY
Possible values:

Maximum length:

ODL Type: Aggregate

Definition:

Delivered product and generated product.

(ASTER/ECS only.) When user requests delivery of product only,

PRODUCT\_GENERATION is omitted and DATASET\_ID and PACKAGE\_ID define product to be delivered. When user requests generation and delivery of product,

DATASET\_ID and PACKAGE\_ID define source product and

PRODUCT\_GENERATION defines processing.

Parent Groups:

**MEDIA** 

Children:

DATASET\_ID, PACKAGE\_ID, [PRODUCT\_GENERATION], SENSOR\_TYPE

PRODUCT\_GENERATION

Maximum length:

Possible values:

**ODL Type:** Aggregate

**Definition:** 

Processing level and parameter for product generation.

(ASTER/ECS only.)

Parent Groups:

PRODUCT\_DELIVERY

Children:

[PARAMETER-2], PRODUCT TYPE

PRODUCT REQUEST

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Provides data for product request (order).

ASTER/ECS use INITIATOR\_REQUEST\_ID and MEDIA group; V0 uses

REQUEST\_ID and LINE\_ITEM group.

**Parent Groups:** 

Children:

[AUTHENTICATOR], [BILLING\_ADDRESS], CONTACT\_ADDRESS, DATA\_CENTER\_ID, [ECS\_AUTHENTICATOR], [INITIAL\_USER\_KEY], INITIATOR\_REQUEST\_ID, LINE\_ITEM, MEDIA, MESSAGE\_ID, MONITOR, REQUEST\_ID~1, [SHIPPING\_ADDRESS], USER\_AFFILIATION, VERSION

PRODUCT\_RESULT

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Order acknowledgement, including data center contact information.

Only acknowledges receipt of order, not necessarily acceptance.

**Parent Groups:** 

Children:

DAAC\_CONTACT\_ADDRESS, DATA\_CENTER\_ID, [DATA\_URL],

MESSAGE\_ID, [MISC\_URL], MONITOR, STATUS\_CODE.

[STATUS\_CODE\_COMMENT], [VERSION]

PRODUCT STATUS INFO

Maximum length:

Possible values:

**ODL** Type: Aggregate

Definition:

Response to PRODUCT\_STATUS\_REQUEST.

ASTER does not provide DAAC\_CONTACT\_ADDRESS.

Parent Groups:

Children:

[DAAC\_CONTACT\_ADDRESS], DATA\_CENTER\_ID, MESSAGE\_ID, MONITOR,

ORDER\_STATUS\_INFO, STATUS\_CODE, [STATUS\_CODE\_COMMENT],

VERSION

PRODUCT\_STATUS\_REQUEST

Maximum length:

**ODL Type:** Aggregate

Possible values:

Message to request status on a product order.

ASTER uses INITIATOR\_REQUEST\_ID; V0 uses REQUEST\_ID~2.

Parent Groups:

Children:

Definition:

[AUTHENTICATOR], [ECS\_AUTHENTICATOR], INITIATOR\_REQUEST\_ID.

MESSAGE\_ID, MONITOR, REQUEST\_ID~2, VERSION

PRODUCT\_TYPE

Maximum length: 10

Possible values: 1B00, 2A02, 2A03

**ODL Type: Symbol** 

Definition:

Type of product in the case of product generation.

(ASTER/ECS only.) "1800" means product level 1B. "2A02" and "2A03" means

decorrelation stretch. Other values may be added in the future.

Parent Groups:

PRODUCT\_GENERATION

Children:

PROTOCOL VERSION

Maximum length: 10

Possible values:

ODL Type: Real

Definition:

Version of message passing protocol, e.g., 3.5.

Provided to allow changes in protocol that are not backward compatible. Since most changes have been made backward compatible, has not been used much.

Parent Groups:

VERSION

QUADRANT\_CLOUD\_COVERAGE

Maximum length: 3

Possible values:

ODL Type: Sequence Integer

Definition:

Percent of cloud coverage for scene quadrants.

(ASTER/ECS only.) Cloud coverage percentages for 4 quarters of a scene in the order: upper left, upper right, lower left, lower right. Returned by ASTER GDS only.

Parent Groups:

**GRANULE** 

Children:

QUIT

Maximum length:

ODL Type: Aggregate

Possible values:

Definition:

Termination message.

QUIT with STATUS\_CODE 1000 used for ABORT. QUITs sent by servers should always contain a DATA\_CENTER\_ID to identify the source.

Parent Groups:

Children:

[AUTHENTICATOR], [DATA\_CENTER\_ID], [ECS\_AUTHENTICATOR].

MESSAGE\_ID, MONITOR, STATUS\_CODE, [STATUS\_CODE COMMENT].

VERSION

RANGE

Maximum length: 1

Possible values: Y

ODL Type: Symbol

Definition:

Range of values required by user.

"RANGE = Y" cues the client to request minimum and maximum values from the

user.

Parent Groups:

SPECIALIZED\_CRITERIA~1

Children:

RANGE LOC

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Rectangular geographic range described by latitude and longitude boundaries.

In DATASET~2 and LINE\_ITEM for dataset-based ordering (under consideration).

Parent Groups:

DATASET~2, DIRECTORY\_SEARCH, GRANULE, INVENTORY\_SEARCH,

SPECIALIZED\_CRITERIA~2

Children:

EAST\_LONGITUDE, NORTH\_LATITUDE, SOUTH\_LATITUDE,

WEST\_LONGITUDE

RECEIVE\_DATE

Maximum length: 20

Possible values: yyyy-mm-ddThh:mm:ss, yyyy-mm-

**ODL Type:** Date

ddThh:mm:ssZ

Definition: The date:

The date that the product request was received by the server.

Parent Groups:

ORDER\_STATUS INFO

REQUEST ID~1

Maximum length: 30

Possible values:

ODL Type: String

Definition:

Identifier assigned by the client for tracking a product request (order).

Displayed on the X-client's DAAC contact screen, followed by a slash and the

DAAC\_ORDER\_ID if the PRODUCT\_RESPONSE provides one.

Parent Groups:

PRODUCT\_REQUEST

Children:

REQUEST ID~2

Maximum length: 101

Possible values:

**ODL Type:** Sequence String

Definition:

Order id(s) whose status is being gueried/shown.

Data centers may allow queries on original REQUEST\_ID~1, DAAC\_ORDER\_ID,

or a combination, and may allow wild card queries.

**Parent Groups:** 

ORDER\_STATUS\_INFO, PRODUCT CANCEL REQUEST.

PRODUCT\_CANCEL\_RESULT, PRODUCT\_STATUS\_REQUEST

Children:

REQUEST\_STATUS CODE

Maximum length: 10

Possible values: PROPOSED, ACCEPTED, PROCESSING,

**ODL Type: String** 

CANCELED, FAILED, COMPLETED, REJECTED, ON HOLD, CLOSED

Definition:

Status for a sub-request associated with an order request.

Original values proposed by ASTER/ECS: PROPOSED (received by data center), ACCEPTED (received by DADS and validated), PROCESSING (being processed for delivery), CANCELED (cancelled at user request), FAILED (could not be processed due to error condition), COMPLETED (order processing completed successfully), REJECTED (rejected by data center). V0 IMS has added ON HOLD (not being processed for some reason) and CLOSED (order closed by data center).

Parent Groups:

SUB\_REQUEST\_INFO, SUB\_REQUEST\_STATUS\_INFO

Children:

REQUEST\_STATUS\_COMMENT

Maximum length: 128

Possible values:

**ODL Type: String** 

Definition:

Ancillary information concerning status or cancellation of a subrequest.

Parent Groups:

SUB\_REQUEST\_INFO, SUB\_REQUEST\_STATUS\_INFO

REQUIRED

Possible values: Y, N

Maximum length: 1 ODL Type: Symbol

Definition:

Indicates whether particular criteria and/or subsetting/product generation options

as a whole must be specified by the user.

If SUBSET\_OPTIONS does not include REQUIRED=Y, then user need not subset; but if he does then any SPECIALIZED\_CRITERIA with REQUIRED=Y

must be specified. Similar interpretation used for ORDER\_OPTIONS.

Parent Groups:

DATASET\_ORDER\_OPTIONS, ORDER\_OPTIONS. SPECIALIZED\_CRITERIA~1, SUBSET\_OPTIONS

Children:

RESTRICTION

Maximum length: 60

Possible values:

**ODL Type:** Sequence String

Definition:

Details of any ordering restrictions placed on the dataset.

Parent Groups:

DATASET~1

Children:

RESULT\_NAME

Maximum length: 80

Possible values: Any previously defined extended search

ODL Type: String

CRITERIA NAME

Definition:

Name of extended search or dataset-specific attribute returned in

INVENTORY\_RESULTs.

Parent Groups:

SPECIALIZED\_RESULTS

Children:

RESULT VALUE

Maximum length: 256

Possible values:

**ODL Type:** String

Definition:

Value of extended search or dataset-specific attribute returned in

INVENTORY\_RESULTs.

Parent Groups:

SPECIALIZED\_RESULTS

Children:

ROW

Maximum length: 4

**ODL Type:** Sequence Integer

Definition:

WRS data-take row (single value or range).

Use one value for a single data-take row, two for a range. Any additional values

will be ignored.

Parent Groups:

Possible values: 1 to 119

PATH\_ROW\_LOC

RX\_CLIENT

Maximum length: 20

Possible values:

ODL Type: Sequence String

Definition:

Time stamp when the client received the server response.

First string is integer number of seconds since Unix epoch; second optional string

is integer number of microseconds since last integer second.

Parent Groups:

MONITOR

Children:

RX\_SERVER

Maximum length: 20

**ODL Type:** Sequence String

Possible values: Definition:

Time stamp when the server received the client request.

First string is integer number of seconds since Unix epoch; second optional string

is integer number of microseconds since last integer second.

Parent Groups:

MONITOR

Children:

SCENE\_CLOUD\_COVERAGE

Maximum length: 3

Possible values:

ODL Type: Integer

Definition:

Average percent of cloud coverage for scene.

(ASTER/ECS only.) This value is for the whole scene. Returned by ASTER GDS

only.

Parent Groups: Children:

**GRANULE** 

Maximum length: 80

SEARCH\_CATEGORY Possible values:

**ODL Type:** String

Definition:

Used to associate similar variants of dataset-specific search criteria.

Presented in the user interface, assigned by science team. May be omitted when data centers initially submit new search terms to science team for consideration.

Parent Groups:

SPECIALIZED\_CRITERIA~1

Children:

SELECT\_NUM

Maximum length: 4

Possible values: ONE, MANY

ODL Type: Symbol

Definition:

Indicates whether one or many values must be selected from a set of alternatives

(in CRITERIA\_VALUE).

Parent Groups:

SPECIALIZED\_CRITERIA~1

SENDER\_VERSION

Maximum length: 16

Possible values:

ODL Type: String

Definition:

String identifying the name and number of the sender (client or server) of the

message.

Used for documentation and debugging only.

Parent Groups:

VERSION

Children:

SENSOR

Maximum length: 30

**ODL Type:** Sequence String

Definition:

Possible values:

Names of sensors associated with a dataset.

Not used in V0 protocol messages.

Parent Groups:

DATASET-4, DEPENDENCY

Children:

SENSOR\_NAME

Maximum length: 30

Possible values:

ODL Type: Sequence String

Definition:

Names of sensors associated with a dataset, granule, or search.

SENSOR\_NAME is required for each GRANULE, but may be given instead at the

DATASET~1 level if it is the same for all GRANULEs in the DATASET~1.

**Parent Groups:** 

DATASET~1, DATASET~3, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

SENSOR\_TYPE

Maximum length: 4

Possible values: "VST", "V ", " S

"VS1","V "," S "," T","VS "," ST", "V T" **ODL Type:** Sequence String

Definition:

TBD.

(ASTER/ECS only.) The possible value of "SENSOR\_TYPE" for delivery product

type is defined by Valids.

Parent Groups:

Possible values:

PRODUCT\_DELIVERY

Children:

SESSION ID

Maximum length: 86

**ODL Type:** String

Definition:

String identifying a user session.

Used for matching purposes in SCRS statistics. Composed of the following, separated by colons: client host fully-qualified domain name, client Unix processid, session start date and time as YYMMDD:HHMMSS. In Web gateway, every communication with servers is a unique session (INVENTORY\_SEARCH will have

different SESSION\_ID from PRODUCT\_REQUEST).

Parent Groups:

MONITOR

SHIPPING ADDRESS

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Address where requested data is to be sent.

Parent Groups:

ORDER\_STATUS\_INFO, PRODUCT\_REQUEST

Children:

[ADDRESS], CITY, COUNTRY, [EMAIL], [FAX], FIRST\_NAME, LAST\_NAME,

[MIDDLE\_INITIAL], [ORGANIZATION], PHONE, [STATE], [TITLE], [ZIP]

SOURCE

Maximum length: 30

Possible values:

**ODL Type:** Sequence String

Definition:

Name(s) of source/platform associated with a dataset.

Not used in V0 protocol messages.

Parent Groups:

DATASET~4, DEPENDENCY

Children:

SOURCE NAME

Maximum length: 30

Possible values:

**ODL Type:** Sequence String

Definition:

Name(s) of source/platform associated with a dataset, granule, or search.

SOURCE\_NAME is required for each GRANULE, but may be given instead at the

DATASET~1 level if it is the same for all GRANULEs in the DATASET~1.

Parent Groups:

DATASET~1, DATASET~3, DIRECTORY\_SEARCH, GRANULE,

INVENTORY SEARCH

Children:

SOUTH\_LATITUDE

Maximum length: 8

Possible values: -90.0000 to +90.0000

ODL Type: Real

Definition:

Southernmost latitude for a range on the globe.

Parent Groups:

RANGE LOC

Children:

SOUTHBOUNDINGCOORDINATE

Maximum length: 11

Possible values: -90.0 to +90.0

**ODL Type:** Real

Definition:

Southernmost limit of coverage expressed in geodetic latitude.

(ASTER/ECS only.) Must be less than NORTHBOUNDINGCOORDINATE.

Parent Groups:

SPATIAL\_COVERAGE

Children:

SPATIAL

Maximum length: 256

Possible values:

**ODL Type:** Sequence String

Definition:

Free text used to describe spatial coverage of the dataset or granules.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol messages.

Parent Groups:

DATASET\_COVERAGE, GRANULE\_COVERAGE

SPATIAL\_COVERAGE

Possible values:

Definition:

TBD.

**ODL Type:** Aggregate

Maximum length:

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

EASTBOUNDINGCOORDINATE, NORTHBOUNDINGCOORDINATE,

SOUTHBOUNDINGCOORDINATE, WESTBOUNDINGCOORDINATE

SPECIALIZED\_CRITERIA~1

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Possible criteria that can be specified by user for searching, subsetting, or product

generation.

**Parent Groups:** 

DATASET\_ORDER\_OPTIONS, EXTENDED\_SEARCH\_MASTER\_LIST,

ORDER\_OPTIONS, SUBSET\_OPTIONS

Children:

COMMENT, [CRITERIA\_DEFAULT], [CRITERIA\_MAX], [CRITERIA\_MIN], CRITERIA\_NAME, CRITERIA\_TYPE, [CRITERIA\_VALUE], [MAX\_LEN], [RANGE], [REQUIRED], SEARCH\_CATEGORY, [SELECT\_NUM], VARIANT

SPECIALIZED\_CRITERIA~2

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Specialized criteria selected by user to define search, subset, or product

generation,

The Web gateway returns the CRITERIA\_TYPE, although a server should

probably know it.

Parent Groups:

DATASET\_ORDER\_SPEC, EXTENDED\_SEARCH, ORDER\_SPEC,

SUBSET\_SPEC

Children:

[CRITERIA\_MAX], [CRITERIA\_MIN], CRITERIA\_NAME, [CRITERIA\_TYPE], [CRITERIA\_VALUE], [POINT\_LOC], [POLYGON\_LOC~1], [RANGE\_LOC]

SPECIALIZED\_RESULTS

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Actual values for extended search attributes for the matching granule. This provides a structured way to return granule-specific metadata. The

COMMENT field of GRANULE can be used to return unstructured free text.

Parent Groups:

GRANULE

Children:

RESULT\_NAME, RESULT\_VALUE

SPECIALIZED\_SEARCH\_URL

Maximum length:

ODL Type: Aggregate

Definition:

Possible values:

URL for a dataset-specific search application

Data centers may also want to provide such URLs to the science team for

inclusion in the Welcome screen.

Parent Groups:

DATASET~1, DATASET~2

Children:

URL, URL\_COMMENT

Tuesday, June 16, 1998

A-42

START DATE

Possible values: yyyy-mm-ddThh:mm:ss, yyyy-mm-

**ODL Type:** Date

Maximum length: 20

ddThh:mm:ssZ

Definition:

Beginning date for search or granule temporal coverage.

In DATASET~2 and LINE\_ITEM for dataset-based ordering (under consideration).

Parent Groups:

DATASET~2, DATASET~3, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

START\_DAY\_OF\_YEAR

Maximum length: 3

Possible values: 1 TO 366

ODL Type: Integer

Definition:

Beginning day of seasonal interest.

Query is for granules with start dates that are between START\_DATE and

STOP\_DATE and are between START\_DAY\_OF\_YEAR and

END\_DAY\_OF\_YEAR in whatever year. This could involve partial "seasons" (e.g.,

2/1/93-2/28/95, days 1-90 would give Feb-Mar 93, Jan-Mar 94, Jan-Feb 95).

Parent Groups:

INVENTORY\_SEARCH

Children:

STATE

Maximum length: 20

**ODL Type:** String

Definition:

US postal state or foreign equivalent, if any, for address.

Parent Groups:

Possible values:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

SHIPPING ADDRESS

Children:

STATUS CODE

Maximum length: 4

Possible values: 1 to 1000

**ODL Type:** Integer

Definition:

Numeric code giving status of query and/or server.

See separate status code table for meanings. (Listed in appendix C of the printed

document.)

Parent Groups:

ACCOUNT\_STATUS\_RESULT, DATASET~1, DIRECTORY\_RESULT,

FTP\_BROWSE\_RESULT, INTEGRATED\_BROWSE\_RESULT,

INVENTORY\_RESULT, PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL\_RESULT, PRODUCT\_RESULT,

PRODUCT\_STATUS\_INFO, QUIT

STATUS\_CODE\_COMMENT

Maximum length: 256

Possible values:

**ODL Type:** Sequence String

Definition:

Free text comment provided by data center to further describe status.

Some clients present this field in place of the fixed text associated with

STATUS\_CODE. Text should not be worded in a way that presumes the fixed text

of the STATUS\_CODE is presented as well.

Parent Groups:

ACCOUNT\_STATUS\_RESULT, DIRECTORY\_RESULT.

FTP\_BROWSE\_RESULT, INTEGRATED\_BROWSE\_RESULT.

INVENTORY\_RESULT, PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL\_RESULT, PRODUCT\_RESULT,

PRODUCT\_STATUS\_INFO, QUIT

Children:

STOP\_DATE

Maximum length: 20

Possible values: yyyy-mm-ddThh:mm:ss, yyyy-mm-

ODL Type: Date

ddThh:mm:ssZ

Definition:

Ending date for search or granule temporal coverage.

In DATASET~2 and LINE\_ITEM for dataset-based ordering (under consideration).

Parent Groups:

DATASET~2, DATASET~3, DIRECTORY\_SEARCH, GRANULE,

INVENTORY\_SEARCH

Children:

STOP\_DAY\_OF\_YEAR

Maximum length: 3

Possible values: 1 to 366

ODL Type: Integer

Definition:

Ending day of seasonal interest.

Query is for granules with start dates that are between START\_DATE and

STOP\_DATE and are between START\_DAY\_OF\_YEAR and

END\_DAY\_OF\_YEAR in whatever year. This could involve partial "seasons" (e.g.,

2/1/93-2/28/95, days 1-90 would give Feb-Mar 93, Jan-Mar 94, Jan-Feb 95).

Parent Groups:

INVENTORY\_SEARCH

Children:

SUB\_REQUEST ID

Maximum length: 10

Possible values:

**ODL Type:** Sequence String

Definition:

The identifier of a lower level request. This can be used to get status or cancel a

portion of an order rather than the entire order.

In ECS this is a character string in order to provide uniqueness across sites. Since in ASTER GDS this is an integer, ASTER can just convert the integer to an ASCII

strina

Parent Groups:

PRODUCT\_CANCEL\_REQUEST, SUB\_REQUEST\_INFO,

SUB\_REQUEST\_STATUS\_INFO

SUB\_REQUEST\_INFO

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Aggregate describing the result of the cancel attempt for the subrequest (as

opposed to the entire order).

Parent Groups:

PRODUCT\_CANCEL\_RESULT

Children:

[REQUEST\_STATUS\_CODE], [REQUEST\_STATUS\_COMMENT],

SUB\_REQUEST\_ID

SUB\_REQUEST\_STATUS\_INFO

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

The status of a sub request.

Optional DATA\_URL group added for VO.

Parent Groups:

ORDER\_STATUS INFO

Children:

[COMPLETION\_DATE], [DAAC\_CONTACT\_ADDRESS], DATASET\_ID,

[DATA\_URL], FORMAT\_ID, [NUMBER\_OF\_GRANULES].

[PROCESSING\_DATA\_CENTER], REQUEST\_STATUS\_CODE, [REQUEST\_STATUS\_COMMENT], SUB\_REQUEST\_ID, TYPE\_ID

SUBSET\_OPTIONS

Maximum length: PACKAGE

Possible values:

**ODL Type:** Aggregate

Definition:

Indicates subsetting parameters for a package if subsetting is available.

Parent Groups:

**PACKAGE** 

Children:

[REQUIRED], SPECIALIZED\_CRITERIA~1

SUBSET SPEC

Maximum length:

Possible values:

ODL Type: Aggregate

**Definition:** 

Subsetting parameters selected by user for ordering.

Parent Groups:

LINE ITEM

Children:

[SPECIALIZED\_CRITERIA~2]

TANGENT\_LATITUDE

Maximum length: 8

Possible values: -90.0000 to +90.0000

**ODL Type:** Real

Definition:

Current tangent (center) latitude of projection map.

Parent Groups:

POLYGON\_LOC~1

Children:

TANGENT\_LONGITUDE

Maximum length: 9

Possible values: -180.0000 to +180.0000

ODL Type: Real

Definition:

Current tangent (center) latitude of projection map.

Parent Groups:

POLYGON\_LOC~1

**TEMPORAL** 

Maximum length: 256

Possible values:

ODL Type: Sequence String

Definition:

Free text used to describe temporal coverage of the dataset or granules.

Used for documentation only. Not a part of dependent valids support files nor in

V0 protocol message.

Parent Groups:

DATASET\_COVERAGE, GRANULE\_COVERAGE

Children:

TERM

Maximum length: 50

Possible values:

**ODL Type:** Sequence String

Definition:

Keyword used to describe the science parameter area of the collection. A

collection can conceivably cover many such parameters.

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

TITLE

Maximum length: 5

**ODL Type:** String

Possible values: Definition:

Title for name of addressee.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, SHIPPING\_ADDRESS

Children:

TOPIC

Maximum length: 32

Possible values:

**ODL Type:** Sequence String

Definition:

Keyword used to describe the general topic area of the collection. A collection can

conceivably cover several topics. Examples include: Atmospheric Science,

Biosphere, Land Surface, etc.

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

TOTAL\_FILE\_SIZE

Maximum length: 10

Possible values: 1 to 2147483647

**ODL Type:** String

Definition:

Combined uncompressed byte size of all FTP requests (may be exact or

approximated).

Parent Groups:

FTP\_BROWSE\_RESULT

TX CLIENT

Maximum length: 20

Possible values:

**ODL Type:** Sequence String

Definition:

Time stamp when client transmitted the request..

First string is integer number of seconds since Unix epoch; second optional string

is integer number of microseconds since last integer second.

Parent Groups:

MONITOR

Children:

TX SERVER

Maximum length: 20

Possible values:

**ODL Type:** Sequence String

Definition:

Time stamp when server transmitted the response.

First string is integer number of seconds since Unix epoch; second optional string

is integer number of microseconds since last integer second.

Parent Groups:

MONITOR

Children:

**TYPE** 

Maximum length: 15

Possible values: GOVERNMENT, COMMERCIAL,

**ODL Type:** String

Definition:

UNIVERSITY, K-12, ACADEMIC, OTHER

Affiliation categories: Government, Commercial, University, K-12, Other.

"University" and "K-12" replace the older "academic" value which should no longer

be used.

Parent Groups:

USER\_AFFILIATION

Children:

TYPE\_ID

Maximum length: 30

Possible values:

**ODL Type: String** 

Definition:

A valid value for media types for this PROCESSING\_OPTION.

MEDIA\_TYPE~2 is one of the TYPE\_ID strings listed in the MEDIA\_TYPE~1

group.

**Parent Groups:** 

MEDIA, MEDIA\_TYPE~1, SUB\_REQUEST\_STATUS\_INFO

Children:

**UNITS** 

Maximum length: 30

Possible values:

**ODL Type:** String

\_

String displayed as part of the legend to specify the units of the values.

Parent Groups:

LEGEND

Children:

Definition:

UNMAPPED\_FIELD

Possible values: any keyword contained in the

INVENTORY\_SEARCH group

ODL Type: Sequence String

Maximum length: 80

Definition:

Fields given in query but not used by the server in an inventory search.

Parent Groups:

INVENTORY\_RESULT

Children:

URL

Maximum length: 200

Possible values:

**ODL Type:** String

Definition:

Data center-supplied URL for special processing.

Parent Groups:

DATASET\_HOME\_PAGE, DATA\_URL, MISC\_URL,

SPECIALIZED\_SEARCH\_URL

Children:

URL\_COMMENT

Maximum length: 60

Possible values:

**ODL Type:** Sequence String

Definition:

Description of corresponding URL.

Parent Groups:

DATASET\_HOME\_PAGE, DATA\_URL, MISC\_URL,

SPECIALIZED\_SEARCH\_URL

Children:

USER AFFILIATION

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

User's self-classification from profile screen for statistics.

Was once expected in BROWSE\_REQUESTs but never implemented there. Has

been left as "optional" but no V0 system provides or expects it.

Parent Groups:

BROWSE\_REQUEST, PRODUCT\_REQUEST

Children:

CATEGORY, TYPE

VALID ACCOUNT

Maximum length:

Possible values:

ODL Type: Aggregate

Definition:

Accounting alternative for this user in general or for a dataset for this user.

Omitted from a DATASET~1 means accounting not required. If account required

for this DATASET~1 but the user has no valid account, then one

VALID\_ACCOUNT group should be sent containing only the ERROR parameter with information to the user. Where multiple accounts are valid, the group is repeated, with each containing mandatory account number and optional balance and error fields. Also used in ACCOUNT\_STATUS\_RESULT to return accounting

information for the user.

Parent Groups:

DATASET~1, ACCOUNT\_STATUS\_RESULT

Children:

[ACCOUNT\_COMMENT], [ACCOUNT\_NUMBER], [BALANCE], [ERROR]

**VALIDS** 

Maximum length:

Possible values:

**ODL Type:** Aggregate

Definition:

Contains dependent valids for all data sets being submitted by a single archive for

use in client support files.

One or more valids groups (followed by a single line containing "END") are used to build the dependency bitmap files used to support the IMS clients. Alternatively, VALIDS group itself can be omitted in file and just contents of the group (the DATA\_CENTER\_ID followed by one or more DATASET~4's) can be included in

the valids file submitted. Not used in V0 protocol messages.

**Parent Groups:** 

Children:

DATA\_CENTER\_ID, DATASET~4

**VARIABLE** 

Maximum length: 80

Possible values:

**ODL Type:** Sequence String

Definition:

Keyword used to describe the specific science parameter content of the collection.

A collection can conceivably cover many specific parameters.

(ASTER/ECS only.)

Parent Groups:

DATASET~3

Children:

**VARIANT** 

Maximum length: 50

ODL Type: String

Definition:

Possible values:

Name displayed in user interface to distinguish among various

EXTENDED\_SEARCHs in the same SEARCH\_CATEGORY.

Assigned by the science team; can change as new variants are added to

categories. Not passed to server.

**Parent Groups:** 

SPECIALIZED\_CRITERIA~1

Children:

**VERSION** 

Maximum length:

**ODL Type:** Aggregate

Possible values:

Message version information.

Parent Groups:

Definition:

ACCOUNT\_STATUS\_REQUEST, ACCOUNT\_STATUS\_RESULT,

ACKNOWLEDGE, BROWSE\_REQUEST, DIRECTORY, RESULT.

DIRECTORY\_SEARCH, FTP\_BROWSE\_RESULT.

INTEGRATED\_BROWSE\_RESULT, INVENTORY\_RESULT, INVENTORY\_SEARCH, PRICE\_ESTIMATE\_REQUEST,

PRICE\_ESTIMATE\_RESULT, PRODUCT\_CANCEL REQUEST.

PRODUCT\_CANCEL\_RESULT, PRODUCT\_REQUEST, PRODUCT\_RESULT,

PRODUCT\_STATUS\_INFO, PRODUCT\_STATUS\_REQUEST, QUIT

Children:

[IMS\_STAFF], PROTOCOL\_VERSION, SENDER\_VERSION

WEST\_LONGITUDE

Possible values: -180.0000 to +180.0000

Maximum length: 9 ODL Type: Real

Definition:

Westernmost longitude for a range on the globe.

Parent Groups:

RANGE\_LOC

Children:

WESTBOUNDINGCOORDINATE

Maximum length: 11

Possible values: -180.0 to +180.0

ODL Type: Real

Definition:

Westernmost coordinate of the limit of coverage expressed in longitude. (ASTER/ECS only.) Must be less than EASTBOUNDINGCOORDINATE.

Parent Groups: SPATIAL\_COVERAGE

Children:

WRS TYPE

Maximum length: 10

**ODL Type:** String

Definition:

Possible values: "WRS-1", "WRS-2"

Used to distinguish WRS coordinates for Landsat 1-3 from those for Landsat 4-5.

WRS\_TYPE="WRS-1" for Landsat 1-3, ="WRS-2" for Landsat 4-5.

Parent Groups: PATH\_ROW\_LOC

Children:

XAR\_ID

Maximum length: 4

**ODL Type:** Sequence Integer

Possible values: Definition:

ID for xAR that produced the granule.

(ASTER/ECS only.)

Parent Groups: GRANULE, INVENTORY\_SEARCH

Children:

**XHAIRS** 

Maximum length:

**ODL Type:** Aggregate

Possible values: Definition:

Obsolete. Never implemented.

Parent Groups:

Children:

ZIP

Maximum length: 15

**ODL Type:** String

Possible values: Definition:

US Postal ZIP code or foreign equivalent for this address.

Parent Groups:

BILLING\_ADDRESS, CONTACT\_ADDRESS, DAAC\_CONTACT\_ADDRESS,

SHIPPING\_ADDRESS