

Welcome. Welcome.

I thank you for attending this webinar.

We will be covering a lot in this session. I know you'll have questions.

During the presentation, the lines will be muted. I'll take questions at the end, when the lines will be unmuted.

[NOTE:

Throughout the notes section references to pages of the standard are given as follows:

[L3PS: 19] - Read as L3 Parcel Standard, page 19. Ranges are shown as 14-19. Multiple page references are shown as 14, 19.]



Here is what we'll cover.

After an introduction to the standard, I'll focus on:

- the L3 file geodatabase (fGDB), including:
 - its components,
 - maintaining relations between the layers using the LOC_ID,
 - then updating Metadata.
- Then I'll review how the data should be formatted when delivered and how the data will then be reviewed.
- Then briefly cover municipal boundaries and parcels.
- Then make you aware of the resources available to maintain L3 Parcel data.
- Then I'll wrap up and take questions.

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The L3 Parcel Standard (L3PS):

Originally introduced in 2002 with lots of stakeholder participation and comment, including muni GIS staff.

Currently at version 2.1 (May 2012) [L3PS: Cover]. Thus, it is very stable.

Standard is consistent with national standards, including ESRI's "parcel fabric." Though the Parcel Fabric and L3 Parcel Standard are not the same, ESRI confirms that implementing the MassGIS standard does not prevent later migration to the ESRI parcel fabric model. [LSPS: 19]



What is an L3 Complaint fGDB?

- The fGDB must have three FCs and three database tables [L3PS: 8, 27]:
- The three feature classes:
 - M000TaxPar (taxable parcels)
 - M0000thLeg (other legal interests and special "FEE" parcels)
 - M000Misc (miscellaneous feature class)
- The three tables:
 - M000Assess (Assessing extract data table)
 - M000LUT (a type look up table)
 - M000UC_LUT (use code look up table)
- In the template fGDB (included with the QA script or request from MassGIS), the names are preceded with M000, where '000' is place holder for Town ID When loaded with your town's data, change to your Town ID Left padded w/ zeros Duxbury, here, has one zero: 082, while Yarmouth is 351 no zeros.

[MassGIS provides a template fgdb, containing empty (template) FCs and tables, with the L3 Parcel QA Tool.]

- The following slides cover these six components in more detail.



TaxPar FC: "Taxable Parcels"

- Contains parcel polygons that should match to one or more assessing records; hence the name, TaxPar. TaxPar also contains other polygons such as public ROWs.
- The standard covers BOTH :
 - Polygons [L3PS: 14-19]
 - Attributes [L3PS: 19-21, Appendix A]
- Polygons
 - All areas of a municipality MUST be covered by a polygon, and
 - Each area must have only 1 polygon covering it (no stacking).
 - Must pass polygon topology requirements of no gaps, no overlaps.
 - Should be consistent with municipal boundary and appropriately w/ visible features on orthos.
- Attributes:
 - All attributes must be present with types, lengths as specified.
 - For individual Elements:
 - Some may allow NULL. Blank is not allowed in fGDB data.
 - Some MUST have data in them.
 - Some have a limited number of acceptable values.



Maintaining L3 Parcel Mapping

Level 3 File Geodatabase: TaxPar

Attribute	Description
MAP_PAR_ID	Unique parcel identifier for a town that in the form of Map-Block-Lot, Map-Lot, Map-Block-Lot-Unit, or similar form.
LOC_ID	Unique parcel identifier based on a point inside the parcel polygon (the "centroid").
POLY_TYPE	Domain values that categorize polygons, including FEE, TAX, ROW, PRIV_ROW, RAIL_ROW, and WATER.
MAP_NO	Map Sheet Number.
SOURCE	Source of information defining the parcel.
PLAN_ID	Source document ID, for example, Plan No.
LAST_EDIT	The most recent date a parcel polygon was altered based on a 'real world' change (split, recombined).
BND_CHK	Used to confirm boundaries drawn between parcels when boundaries appeared inconsistent with ortho features.
NO_MATCH	A flag that, under specific cases and advanced notice to MassGIS, that a parcel record can be excluded from match rate checks with CAMA records (default is 'N.').
	Full specification: L3PS-Appendix A – Tax Parcel Attributes

TaxPar contains these attributes: *- Focus on these attributes [L3PS: 6, Appendix A]

*MAP_PAR_ID - Unique parcel ID (Map/Lot, Map/Block/Lot, etc.).

*LOC_ID (Unique ID for FC, created within the FC-more on this later).

*POLY_TYPE (Domain of values – fixed - TAX, FEE, WATER, ROW, etc.).

- Two ways to represent taxable parcels in the standard:

- FEE – parcel polygon where one or more Assess records relates to a single parcel (can be multipart).

- TAX – polygon where two or more parcels combined for tax purposes and having a single Assess record.

- Right of Way polygons (ROW – public or generic; PRIV_ROW; and RAIL_ROW).

- WATER – polygons for ponds/lakes/streams that participated in defining the bndries of taxable parcels. [Typically, these parcels do not have an owner, but a few exist. These will not be part of match rate checks by the L3 QA script.]. Ponds wholly w/in a parcel are stored in MISC FC.

MAP_NO – Map Sheet Number.

SOURCE (ASSESS, SUBDIV, ANR, etc.) – source of info defining parcel.

PLAN_ID - source doc. ID, for example Plan Number.

*LAST_EDIT (YYYYMMDD) – this is important- the most recent data a parcel

polygon was altered based on a 'real world change' in 4 digit Year, 2 digit month, and 2 digit day (YYYYMMDD) format.

BND_CHK (Used to confirm whether bndry drawn betw parcels is consistent s correct w/ feats seen on an ortho–now optional).

*NO_MATCH – Excluded from matching with a CAMA record. This is used only rarely, with advanced notice to MassGIS, and is for cases where deed research is needed to ID an owner.

[See the standard for specifics concerning these attributes]



"Bundle of Rights"

[Some content source: http://extension.illinois.edu/lcr/propertyrights.cfm]

Property rights have been likened to a bundle of sticks where each stick represents a right or interest in land. These rights may all be owned by one person, known as "FEE simple ownership," or specific rights may be transferred to a govt or other entity.



"Bundle of Rights" (continued)

Mapping of the area of personal ownership usually doesn't coincide with mapping of the areas of other rights such as conservation restrictions or easements. Rights may be sold off for part of one parcel and part of other parcels.

The OthLeg FC provides a way to map the polygons representing rights in land when one or more of these rights have been separated from full "FEE simple" ownership.

MassGIS also uses OthLeg to preserve parcel polygons that have been merged for tax purposes in TaxPar FC.

OthLeg (Other Legal) FC								
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OthLeg FC "Other Legal" [LSPS: 18]

- Contains polygons that overlap partly or entirely with one or more polys in TaxPar.

- 2 types:

- First type is polygons representing separate rights within an area and cover 1 or more parcels.

- Second type is FEE polygons (will return to later in the pres.).

For attributes of Easements:

- The Domain in the standard for LEGAL_TYPE attribute already contains several types, including EASE, CR, and RAIL_OVER.
- Only the LEGAL_TYPE attribute is required.

Level 3 File Geodatabase: OthLeg ttributes of OthLeg:					
Attribute	Description				
LEGAL_TYPE	A domain of values that states whether the polygon is a FEE parcel part of a TAX parcel in TaxPar or an Easement (Req. for all polys).				
MAP_PAR_ID	Unique parcel identifier for a town that in the form of Map-Block-Lot, Map-Lot, Map-Block-Lot-Unit, or similar form (Req. for FEE polys).				
TAX_PAR_ID	The LOC_ID of the TAX parcel in TaxPar that this polygon is associated with (Req. for FEE polys).				
LS_BOOK	Last Sale Book				
LS_PAGE	Last Sale Page				
REG_ID	Registration ID				
	Full specification: L3PS-Appendix A – Other Legal Interests Attributes				

OTHLEG: [L3PS: 21-22]

LEGAL TYPE – (Required for all polys) Domain of attributes that records whether a polygon is a FEE parcel or some kind of Easement.

MAP_PAR_ID – (Required for FEE polys) Unique identifier for a parcel in a community in the form of Map-Block-Lot or similar form.

TAXPAR_ID – (Required for FEE polys) This is the LOC_ID of the TAX parcel in TaxPar that covers it.

LS_BOOK - last sale book.

LS_PAGE - last sale page.

REG_ID – Equivalent to the Book and Page numbers in Registry of Deeds but these are for cases through Land or Probate Court.

[See the standard for specifics concerning these attributes]

The domain of valid values for the LEGAL_TYPE attribute can be expanded, for example, "EASE-SEWER" or "EASE-DRAIN." However, if you do that, we want to know what they are. This is why we have a LUT for this domain.

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The domain of values used for LEGAL_TYPE in OthLeg is listed in the (M000_)LUT.

CODE = LEGAL_TYPE.

As previously mentioned, custom attribute values for LEGAL_TYPE can be used, and this LUT is where you store them.

Each new custom value used must be entered in the LUT (Lookup Table) with the town id, the FIELD_NM = LEGAL_TYPE, the CODE value itself, and a description in CODE_DESC.



Misc FC: [L3PS: 19]

- contains any other polygon features that you want represented on a tax map. The Misc FC typically includes a number of features such as TRAFFIC_ISLAND (features found in a road intersection), WATER, and WETLAND.
- You are not required to use this feature class. If you have other feature classes that have, for instance, ponds and lakes, use those feature classes, instead. But, even if you have no polygons in this FC, it must be present in the fGDB submitted to MassGIS.

The polygons in MISC are identified in the MISC_TYPE attribute. The valid domain of values for this attribute can also be expanded provided they are included in the LUT.

	Ma Le	aintai vel 3 Fi	ning L3 F ile Geodatal	Parcel Mapping base: Misc
MISC)_TYF	PE (M	ISC) Attri	ibutes in LUT
 MIS attr 	SC_T ibute	YPE (I in MIS	Misc) – Tł SC.	ne domain of values for the MISC_TYPE
Cus	stom o	codes	can be u	sed.
Tab	ıle).			
OBJECTID *	TOWN_ID*	FIELD_NM *	CODE *	CODE_DESC
OBJECTID *	TOWN_ID*	FIELD_NM *	CODE *	CODE_DESC parcel of land moved from the TaxPar layer
OBJECTID*	TOWN_ID *	FIELD_NM * LEGAL_TYPE LEGAL_TYPE	FEE PRIV_ROW	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way
OBJECTID* 1 2 3 3	TOWN_ID * 0 0 0	FIELD_NM * LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE	CODE * FEE PRV_ROW EASE	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way easement easement easement
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OBJECTID* 1 2 3 4 5 6	TOWN_ID * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FIELD_NM * LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE	CODE * FEE PRIV_ROW EASE CR APR CDV	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way easement conservation restriction agricultural preservation restriction conservation restriction conservation control protection
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0BJECTID* 2 3 4 5 6 7 8	TOWN_ID * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FIELD_NM * LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE	CODE * FEE PRIV_ROW EASE CR APR CRX APR RX RAL ROW	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way easement conservation restriction agroutural preservation restriction conservation restriction exclusion agroutural preservation restriction exclusion agroutural preservation restriction exclusion agroutural preservation restriction exclusion agroutural preservation restriction exclusion
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08JECTID* 1 3 4 5 5 6 7 7 8 9 9 9 0 12 12 11 11 15 16 6 17 7	TOWN_ID* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FIELD_NM * LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE	CODE * FEE FRV_ROW EASE CR	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way essement conservation restriction agroutural preservation restriction conservation restriction exclusion agroutural preservation restriction conservation on parcel with different owner railwoad ROW crossing on top of andther ROW Roll crossing on top of andther ROW Roll different ways wetland area (as shown on assessor map) double insetsma, lake, nod, reservoer, etc Island a na body of water, and ta separate parcel a railwoad ROW within a ROW, hown for reference portion of parcel split by and/or exclining point of parcel split by and/or exclining building utility.
08JECTID* 1 2 3 3 4 4 5 6 6 7 7 8 9 9 12 13 14 15 16 16 17 18	TOWN_D* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FIELD_NM* LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE LEGAL_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE MISC_TYPE	CODE * FEE FRIV_ROW EASE CR CR APR CRX APRV RAL_ROW RAL_OVER POINT_OVER VMETLAND VMATER SLAND SLAND TRAFFIC_SLAND OUTSDE BLDO RESERVED_SPRING SPRING	CODE_DESC parcel of land moved from the TaxPar layer private right-of-way easement conservation restriction conservation restriction onservation restriction exclusion agricultural preservation restriction exclusion raitead ROW crossing on top of another POW a raised area within a ROW, shown for reference portion of parcel split by and/or existing beyond town boundary building cultimetricoflooprints reserved aprend

The domain of values used for MISC_TYPE in MISC is also listed in the LUT. [L3PS: 22, Appendix A]

- Like in LEGAL_TYPE, MISC_TYPE – The domain of values to describe any feature in MISC FC.

- Custom codes can be used.

- Each new value used must be entered in the LUT (Lookup Table). For each new value, create a new record, enter your TOWN_ID, then select "MISC_TYPE" under FIELD_NM, then enter the value for CODE and then a description for that code.

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			5 003(014(000)	F_854	633_2848966		0	1100	0	1100	2017	28.7	1 1	7170		
			6 003(057(000)	F_854	509_2849761		0	1600	0	1600	2017	0.0	9 0	1320		
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The Assess table source is a copy of your Assessor's CAMA database. The five major CAMA software packages.

Include: Vision, Patriot, PK_Systems, CSC/Tyler IAS, Tyler Universe. [L3PS: 13-15, Appendix A]

- This extract is available in all CAMA systems.
- The extract includes the field containing the LOC_ID.

There are many fields that are included in an extract. The standard specifies each field's name, type, and length. The extract must be imported into an empty Assess table that conforms to the MassGIS standard. I'll speak more about this in a couple slides.

PROP_ID (initial link to map) BLDG_VAL	PROP ID	OWNER1
BLDG_VAL		
		OWN_ADDR Owner Info.
	Valuations	OWN_CITY
DTHER_VAL		OWN_STATE
		UVVN_CO
S DATE	Miscoll	I S PAGE (last sale bade) Registry Info
S PRICE	WISCEII.	REG ID
JSE_CODE		ZONING
SITE_ADDR		UNITS (number of units)
ADDR_NUM		YEAR_BUILT
ULL_STR	Site Address	BLD_AREA (commercial / industrial)
OCATION (unit, side)	Info	RES_AREA (gross living area)
	into.	STORIES
		Miscoll
ZIP		
OCATION (unit, side)	Site Address Info.	RES_AREA (gross living area) STYLE STORIES

The Assess table developed from the MassGIS CAMA has these elements. Generally, elements include valuations, site address information, owner and owner address information, registry information, and other useful items.

One of the data elements in the assessing extract is USE_CODE.

Use Cod	le Look	up Ta	ble (UC_LUT)	
		-		—	
	OBJECTID *	TOWN_ID	USE_CODE	USE_DESC	
	587	0 9	9740	Vacant, Utility Authority	
	588	0 9	9750	Vacant, Transportation Authority	
	589	0 9	9800	Vacant, Selectmen or City Council, Other City or Town (Municipal)	
	590	0 9	9810	Improved, Selectmen or City Council, Other City or Town (Municipal)	
	591	0 9	9820	Vacant, Conservation, Other City or Town	
	592	0 9	9850	Improved Municipal or Public Safety, Other City or Town	
	593	0 9	9880	Vacant, Other District (County)	
	594	0 9	9890	Improved, Other District (County)	
	595	0 9	9900	121A Corporations	
	596	0 9	9910	Vacant, County or Regional	
	597	0 9	9920	Improved, County or Regional, Deeds or Administration	
	598	0 9	9930	Improved County or Regional Correctional	
	599	0 9	9940	Improved County or Regional Association Commission	
	600	0 9	9950	Other, Open Space	
	601	0 9	9960	Other, Non-Taxable Condominium Common Land	
	602	0 9	9970	Other	
	603	82 7	722	Wasteland	
	604	82 3	343	Commercial Condo	
	605	82 0	0109	MultiHses	
	606	82 0	0325	Pri Res	
	607	82 0	0322	Condo - Vacant	
	608	82 1	101A	Single Fam - Attordable	
	609	82	102A	Condo - Affordable	

[L3PS: 23]

There are standard use code values, established by DOR. These are already populated in this table.

Munis can add custom values. If custom values are used, they must be entered in the UC_LUT table. For each new value, create a new record, then enter your TOWN_ID, the use code value, and a brief description of what that value describes (you may need the Assessor to provide a description).

USE_CODE is becoming more and more important as a way to characterize the human activity at a location. The use code is used for various types of regional analysis and is part of creating MassGIS land use-land cover mapping, which will be released later this year.



Back to the Assess table – along with the changes to TaxPar, OthLeg, and Misc to visually represent the parcels, the data in the Assess table needs to be replaced with an updated version from the Assessor's CAMA system. This update is based on the MassGIS standard extract. [L3PS: 22-23]



So, how does the Assess table get up to date using the extract from the Assessor's CAMA database?

The data is exported by the Assessor from the CAMA database using the "MassGIS standard report" export format within the CAMA. The result is a file (.txt, .csv, or .xls).

There are two steps to importing this file:

- 1. Use the utility, currently called the Extractolator, that opens a selected file, reformats the data and creates two files: a PostProc.txt file that contains the reformatted data and a schema.ini file that maps the fields between the PostProc.txt file and the Assess table.
- In ArcMap copy into your fGDB an empty Assess table from a template fGDB (available from MassGIS) then right-click over that table and select LOAD, then select the PostProc.txt file to import data into the template Assess table.

Instead of importing the file, you can submit an MassGIS extract along with the fGDB. HOWEVER, the extract MUST still be created from the MassGIS standard extract option. But, If you do successfully LOAD the CAMA data into the Assess table and have the other five required elements of the L3 fGDB, you'll be able to run the MassGIS L3 Parcel QA tool and get your results quicker.



As stated in the attribute slide for TaxPar, LOC_ID is the unique identifier for polygons in TaxPar. It has these advantages [L3PS: 10]:

- Same format all the time in every municipality.
- Represents a coordinate somewhere within a parcel polygon usually the centroid.

The LOC_ID value has three components, separated by underscores. This whole value represents a point within a parcel that it was created from:

- "M" or "F" signifying the units of the Mass. State Plane coordinate system you are working in.
- Next is the 1st set of numbers representing the location in the X dir. in that unit of a point within that parcel.
- The last group is the second set of numbers representing the Y direction in that unit.
- Only the numbers to the left of the decimal are used.

MassGIS uses the Massachusetts State Plane, Mainland projection, in Meters. Many communities have LOC_IDs in feet, which is generally OK, but contact us if you are unsure how to proceed.

Challenge	vel 3 File Geodatabase: 1 of Map ID difference	TaxPar	
	CAMA stores ma Map=195, Block (and maybe sub	ap information: =12, Lot=10, -lots A, B, C, etc.)	
	GIS	CAMA SYSTEM	
	195-12-10	195-12-10	
	195_12_10	195/12/10	
	195-12-10A	195 <mark>//</mark> 12//10A	
 Map-Block-I formatted di CAMA data. two are muc 	ot values are often fferently between GIS and Thus, links between the h harder to manage.	d	

So, why can't we use Map-Par-ID instead of creating a new type of parcel ID? [L3PS: 10, 19]

CAMA systems store the map id information in several fields, then concatenate them into a string either padding digits with 0s or having separators. Thus:

- There are multiple ways in which same map/block/lot information may be displayed on maps and in assessor records between communities.
- If there is not coordination between the map editors and the assessors, the same MAP_PAR_ID value in TaxPar may be formatted differently from PROP_ID in Assess and, thus, a link between the records is NOT established.
- Map, Block, and Lot information is only unique in each community.

Also, condo owners on the same parcel have their own MAP_PAR_ID (often with a Unit or serial number with the base MAP_PAR_ID No). These condo Map IDs have no equivalent on the parcel map.

The result is much lower match rates and more time/money in maintaining values. LOC_ID solves these issues.



Maintaining Parcels in the L3 Standard -

When parcels are split or significantly changed (not just altered slightly) a new LOC_ID needs to be generated.

In this example, one FEE parcel is split roughly down the middle into two smaller parcels and two LOC_ID values will be created.

The first thing to do is use the ArcGIS tools to split the polygon into smaller polygons.



Next, you create LOC_IDs for each of these new polygons:

- select the split or combined polygons.
- in the TaxPar attributes table, use Field Calculator to create a new LOC_ID value using a python command provided below. This process is documented step-by-step in the "Guide to Maintaining Parcels." Note the use of the SHAPE.LABELPOINT command. [We have found that w/ "L" or "U" shaped parcels sometimes did not create an acceptable value when SHAPE.CENTROID was used.]
- Finally, fill in the other attributes for the parcels.

Remember: each polygon has a unique LOC_ID value, including ROW and WATER polygons.

If a parcel has non-contiguous parts, then a single multipart polygon needs to be made, then a LOC_ID created.



The result should have two parcels, each with LOC_ID values different from each other and located within the respective polygon.



In some cases, the original LOC_ID value can be retained. Here, a lot has been split into multiple lots. The old LOC_ID, if the value represented a centroid, is retained in the center parcel.



If you create LOC_ID per new or reconfigured parcels, then the Assessor needs to update the corresponding assessing records. How is it done?

This requires that the Assessor be provided a file with this info – at minimum the PROP_ID for a CAMA record and the corresponding LOC_ID value. Other fields can be added such as site address if this is helpful to the Assessor. [L3PS: 32]

The Assessor receives this change list and uses the PROP_ID to look for the CAMA record, then will COPY and PASTE the new LOC_ID in the CAMA, replacing any existing values already in the field. Any CAMA record to a parcel gets the LOC_ID value for that lot. For instance, individual condo owners get the same LOC_ID value in a lot. MassGIS has an instruction sheet for Assessors.

Remind the Assessor NOT TO TYPE IN THE LOC_ID VALUES –this introduces typos.

Patriot and Vision said they will develop a LOC_ID update tool for Assessors. When avail., MassGIS will provide updated info about this.



Back when the TaxPar FC was introduced, the value, "TAX" was introduced as one of the domain values in POLY_TYPE.

There are two needs:

- The Assessor has the need to group two or more parcels for 'tax purposes' to create address lists and tax bills.

- Engineering and other entities have the need to represent all deeded parcels on a tax map with their owner information

TAX-FEE relationship is used to combine parcels (same owner, different MAP_PAR_ID values, and in most cases, adjacent to one another) for 'TAX' purposes so that one CAMA record is associated with multiple parcels [and to ID the entire area for that owner record]. This is done using both the TaxPar and OthLeg FCs. [L3PS: 31-32]

TAX Parcels in TaxPar:

- Are the dissolved areas of groups of individual parcel polygons.
- LOC_ID value is created in this polygon and stored in LOC_ID.
- MAP_PAR_ID has no value (There is more than one value involved)
- POLY_TYPE = TAX to signal this particular relationship.

FEE polygons in OthLeg:

- Are the same 'FEE' polygons originally in TaxPar.
- LEGAL_TYPE = FEE
- MAP_PAR_ID is Map Id of that parcel
- TAXPAR_ID has the LOC_ID value of the TAX poly covering this poly in TaxPar.

Not all communities create TAX parcels, but it's the only way to apply one CAMA record over more than one separately deeded parcel.

The OthLeg FC can be empty IF there are no FEE parcels from a TAX-FEE relationship, and no digitized easements maintained in your GIS as polygons.

This is how to create this relationship – using the first case, which has three adjacent polygons, same owner, different MAP_PAR_ID values.



To create TAX-FEE parcel polygons:

Start by selecting parcel polygons that are to be combined for tax purposes and are represented by one CAMA record.

This is a situation where you should be in conversation with the Assessor. The Assessor should have created one record representing the three parcels owned by the same owner. If there are still records for each parcel, then it is NOT a TAX Parcel.

In this example, the Assessor has confirmed that there is only one CAMA record for these parcels.



Then,

-Copy component parcels from TaxPar and paste into OthLeg.

-Make sure each component parcel in OthLeg has the right MAP_PAR_ID value.



Then,

- In TaxPar, dissolve the selected parcels into one large polygon.
- Create a new LOC_ID value for that parcel.
- If present, delete the value in MAP_PAR_ID.
- Change POLY_TYPE to "TAX."
- Also, enter the values for the other fields in the TaxPar record.



Then,

- Copy this LOC_ID value and paste it into TAXPAR_ID for each of the component parcels in OthLeg.



The second case is when one of the lots may be across a right of way or WATER polygon and, thus does not have a shared boundary. Again, each lot should have its own Map-Par-ID, and, of course, a common owner.

If the lots are far apart, for instance, across town, we don't generally accept them as TAX parcels.



The above is NOT a TAX parcel. If the MAP_PAR_ID is the same in each polygon, then these are likely two parts of THE SAME PARCEL. If this is the case, then these two should be made into a multi-part polygon with POLY_TYPE value of FEE.

Multipart polygons are required where there are two or more non-adjacent portions of the same polygon, regardless of whether the polygon is TAX or FEE.



Parcel boundaries must be clipped to the MassGIS survey-derived municipal boundary. [L3PS: 27]

Where other boundary delineations may be accepted:

- Engineering plans with Town Surveyed boundaries
- Water Boundaries in your tax map
- Right of Way in your tax map

MassGIS' boundary mapping:

- Harbor and Land Commission Atlas (published 1898 1915)
- Mass. Acts and Resolves that modify boundaries since Atlas was published
- USGS Topographical maps and other sources.

()) Ma	aintaining l	L3 Parcel Mapp	ing				
Me	etadata						
1	-1	Editing 'M082TayPar			?	×	
	Identification Data Quali	y Data Organization Spatial Reference	Entity Attribute D	istribution Metad	data Reference	ce	
	General Contact Ctation T	me Period Status Spatial Domain Keywords	Browse Graphic	Security Cross Refe	erence		
	Abstract: This dataset is a file were made t	polygon representation of the parcels for the Town o the spatial and tabular data in order to bring the file	of Duxbury, Massach in compliance with I	usetts. Edits to a bas lovember 2010 Mass	ie parcel		
	Purpose: The purpose of representation of	this dataset is to provide the Massachuesetts Office f the parcels for the Town of Duxbury, Massachuese	of Geographic Infom tts that comply with	ation with a polygon ts Level III standards.			
	Language: English						
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	Access Constraints: This digital parce display from the	el data layer is considered to be in the public domain MassGIS website; http://www.mass.gov/mgis	and will become acc	essible for download	and 2		
	Use Constraints: This data may b boundaries are n	e appropriate for planning purposes. It should not be equired.	utilized where legal	and surveyed propert	y Y		
	Data Set Credit: Geospatial Depa	atment, Coler & Colantonio, Inc. (781) 982-5405					
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We view metadata just as important as the polygon or attribute data within the fGDB [L3PS: 26, Appendix C].

Maintain within the M000TaxPar FC in fGDB via FGDC Editor Add-in.

Downloadable from ESRI web site.

Full metadata created when L3 Parcels first created.

Maintaining L3 Parcel Mapping Metadata					
Fields to Update Control Caton Control Control Control Control Caton Tere Period Status South Con- Control Control Tere Period Status South Con- Control Control Caton Tere Period Status South Con- Control Control	Beach Cycle Mostrawiar Control State Control Contro Control Control Control Control Control				
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	Consticutor System Undergo Monator Save Cancel Holp 35				

Only three fields need to be updated with each submission:

- Abstract (be sure there is a statement about updating mapping and CAMA data and provide a date of currentness.
- Time Content/Calendar Date: Change to represent the currentness of data submitted.
- Metadata Date: Change to the date the metadata was edited.



File type accepted:

-File Geodatabase (fGDB) [L3PS: 8, 27]:

-with the six required, conformant components.

-Personal geodatabase (.mdb), **providing** it has the six required, conformant components.

-No shape files or CAD files accepted.

Components: TaxPar, OthLeg, and Misc FC and, Assess, LUT, and UC_LUT tables with the fields as specified in the standard.

- Other layers can be included and other attributes accepted as long as the standard layers and attributes are there.
- FC can be in a feature dataset.

For now, an updated CAMA extract (MassGIS extract) containing the updated LOC_ID can be submitted in lieu of an updated Assess table – this may change. As noted earlier, if you produce fGDB with all 6 components you can then run MassGIS QA yourself. Several of your peers have said that this is useful.



How to Deliver: MUNIUPLOAD Utility

All fGDB files for L3 Parcel review are placed here.

Similar to an FTP site.

Requires an account set up (by email address).

Requires sending an email requesting that an account be set up. The url will be provided as part of the set up.

Documentation sent when the account is set up.



L3 QA Script Basic Rules and Checks:

- All FCs and tables are present and the fields within them are the correct type and length.
- Values in the attribute tables conform to the schema based on the standard.
- LOC_IDs: one and only one per polygon; no duplicate values.
- Links between the mapping and assessing database are correct [L3PS: 32-33, -Appendix A].
 - This includes checking that match rates meet minimum percentage levels:
 - From Assess records with Building or Other Values > \$1K to TaxPar records (<= 1000 parcels – 99.0%, >1000 parcels – 99.8%).
 - From Assess records with Building or Other Values < \$1K to TaxPar records (< 1000 parcels – 95%.0, > 1000 parcels – 97.0%).
 - From TaxPar records to Assess records.
- Identify gross discrepancies between parcel area measured by the GIS software and the lot-size recorded by the assessor;

- the primary purpose of lot size vs. GIS area check is identifying incorrect links to the assessing data extract; and whether the LOT_UNIT value (S

or A) matches the values in LOT_SIZE.

- compares lots that are at least 1 acre in size and reports discrepancies >50%.

[- we don't review unless there are MANY records.]

- There are no overlaps or gaps between parcel polygons (topology check)
- TAX-FEE relationship correctly modeled, including:[
 - There are two or more OthLeg component polygons for each TAX polygon in TaxPar.
 - There is a TAX polygon in TaxPar covering FEE polygons in OthLeg.
 - Every FEE parcel in OthLeg has a value in TAXPAR_ID and MAP_PAR_ID].
 - TAX polygons in TaxPar exactly cover all component FEE polygons in OthLeg.
 - [There are less records in Assess for the TAX parcel to number of FEE parcels in OthLeg.]

There are seven separate checks on TAX-FEE relationships. The most important of these is that the TAX parcel in TaxPar must exactly all of its constituent FEE parcels in OthLeg.

If your fGDB contains all six components, you can run the script and obtain the results immediately.



After this webinar, a package will be sent to you with the following: Maintaining L3 Parcel Mapping Webinar Presentation - (this document) Municipal Boundaries and the L3 Parcel Standard Presentation - a brief discussion of the origins of the municipal boundaries as drawn in the Towns from Survey Points Points, Arc Lines, and Polygons FCs.

The "Extractolator" (for now) (CAMA extra reprossessing utility – Stand alone app)

Reformats an exported MassGIS extract to a text file so that it can be imported into an fGDB template Assess table using LOAD in ArcMap.

L3 Parcel QA Tool (Python Script)

Conducts a full QA review on an L3 compliant fGDB

Provides a text file of results and files listing issues that need reviewing V5 works in versions 10.1 and higher

MassGIS Standard for Digital Parcels and Related Data Sets, Version 2.1, May 2012.

https://www.mass.gov/service-details/massgis-standard-for-digital-parcelsand-related-data-sets

Guide to Maintaining L3 Parcels

https://www.mass.gov/service-details/maintaining-standardized-assessor-parcel-mapping

Guide to Maintaining a Map Topology – especially for editing with the ArcMap Basic license.

LOC_ID Update Instructions - Instructions for the Assessor to update LOC_ID values within a CAMA system.



Other References

In addition to the documents supplied, the data download page for L3 Parcels has a discussion about L3 Parcels and links to documents. The direct link is here.



