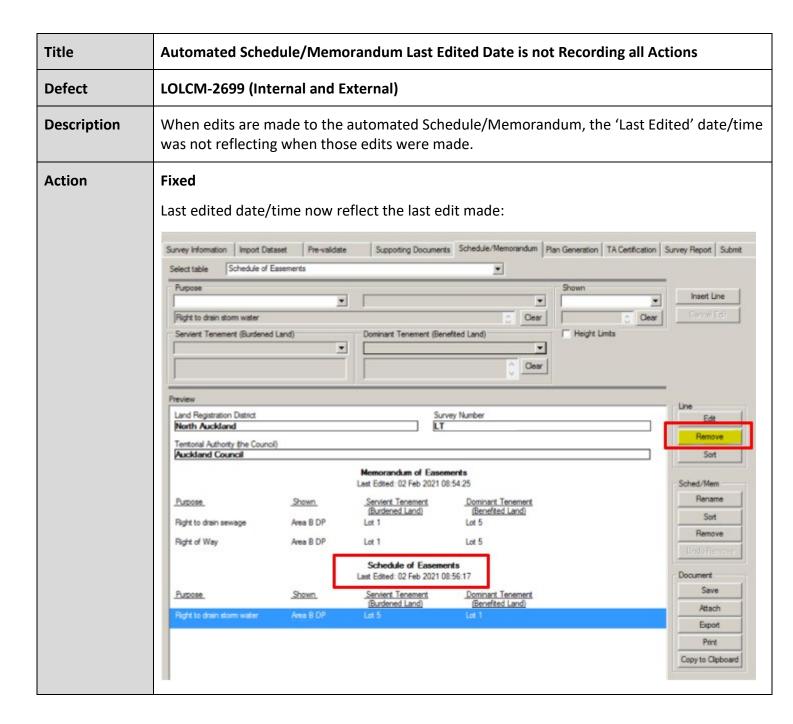
Survey Release Notes for Landonline Release 3.24 (30 Aug 2021)

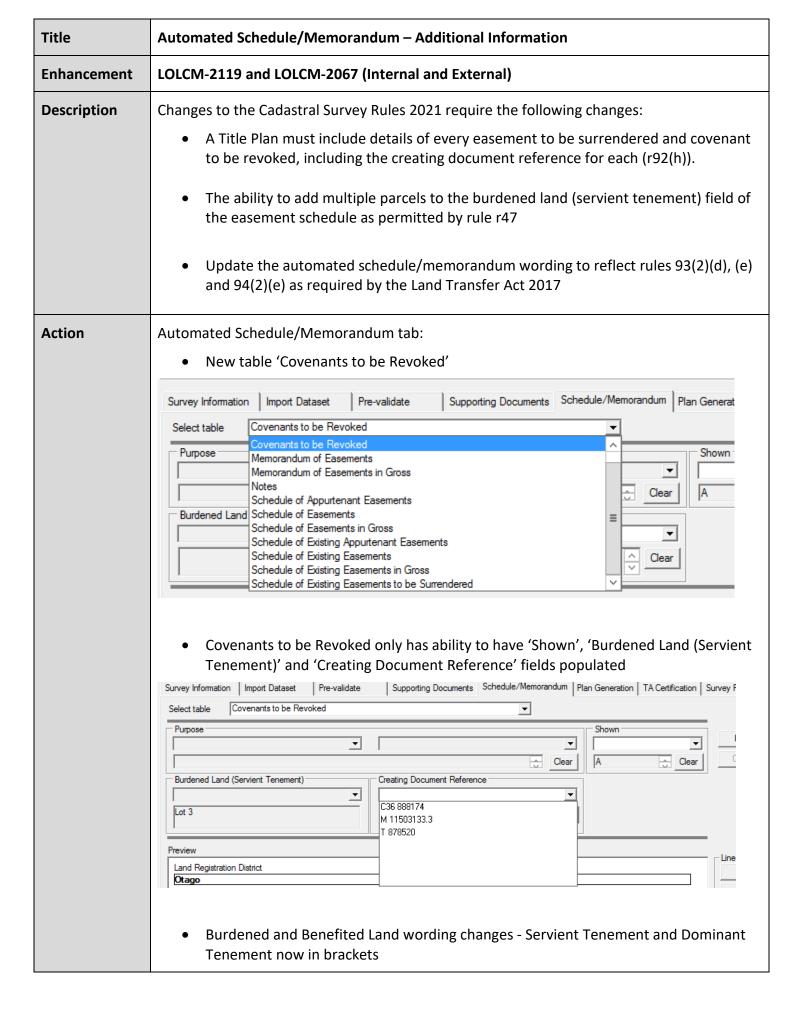
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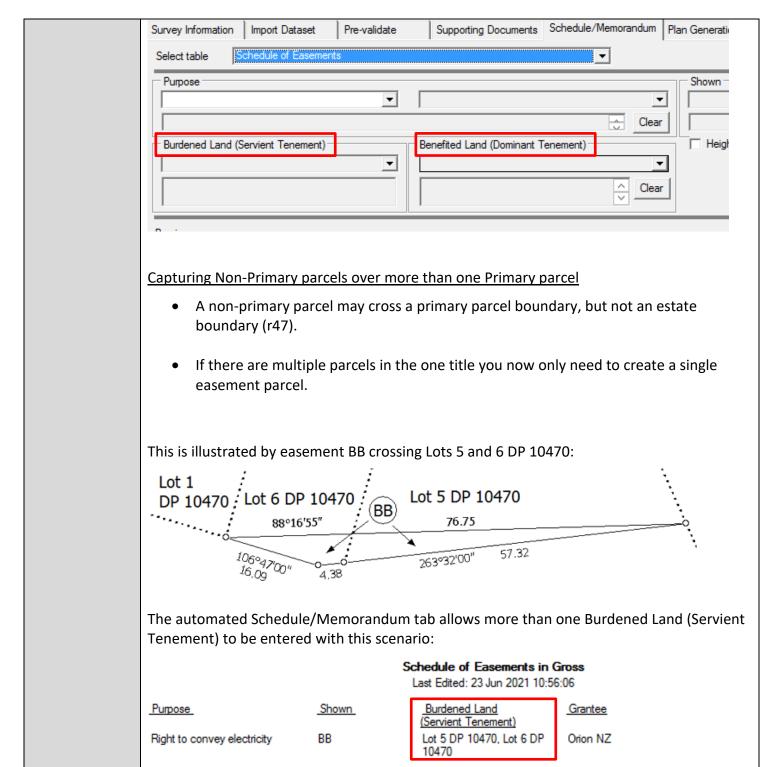
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Title	Adding Mark Conditions to the Mark & Vector Report			
Enhancement	LOLCM-2085 (Internal and External)			
Description	and not foun Mark Details (radio button A new colum CSD for ident Searched for	d or destroyed screen already is under the M in has been cre ifying if marks and Not Foun	er a survey mark is disturbed, renewed, remo CSR 2021 r80(5) & (7). Existing functionality records this information for disturbed and re ark Reliability Details field). ated in the Mark and Vector report to display are Destroyed and Not Found (2010 rules) or d (2021 rules).	in the CSC_S03b- enewed marks v information in the Destroyed and
Action	Mark a	on column und nd Vector DP 435642 t Observation Point 2000 To Code	Chord Bearing Arc Length Radius Adpt Surv	<u>Found mark</u>
	PEG A DP 23575 PEG (15) DP 23575	PEG (15) DP 23575 ob49 PEG 2 ob50	127°35′00° 2.99 15.00 A DP 23575 139°15′00° 3.07 15.00 A DP 23575	
	PEG 2	PEG (13) DP 23575 ob51	156°33'00" 5.99 15.00 A DP 23575	
	Mark Name IT 3 DP 319850	Mark Condition	Description Flush	
	IT I DP 23575		0.2 down	
	IT V DP 23575		Iron tube flush in seal 3 metres from kerb.	
	PEG 3		2.1m SE from MH	
	IS IV DP 23575	Destroyed		
	PEG (10) DP 23575 PEG (11) DP 23575	Not Found Not Found		
	PEG (11) DP 23575	Not Found		
	Mark Conditiconditions:		ler the CSR 2021 showing Destroyed and Not	Found mark
	Meridional Circuit	DP 435642 Observation Point 2000 To Code	Chord Bearing Arc Length Radius Adpt Surv	
	PEG A DP 23575 P	EG (15) DP 23575 ob49	127°35′00" 2.99 15.00 A DP 23575	
	100 (10) 01 000 10	EG 2 ob50 EG (13) DP 23575 ob51	139°15′00° 3.07 15.00 A DP 23575 156°33′00° 5.99 15.00 A DP 23575	
	Mark Name M IT 3 DP 319850		escription ush	
	IT I DP 23575		2 down	
	IT V DP 23575		on tube flush in seal 3 metres from kerb.	
	PEG 3		Im SE from MH	
		Destroyed		
	` '	earched For and Not Found		
		earched For and Not Found		
	PEG (12) DP 23575 S	earched For and Not Found		

Title	Bundle Area Schedule Supporting Documents LOLCM-2122 (Internal and External)	
Enhancement		
Description	All CSDs with a survey purpose 'Legalisation' must include an area schedule as a supporting document CSR 2021 r96.	
	This enhancement ensures that once Plan Generation has been run, the Area Schedule will also be bundled to the Title Plan.	
	Where no area schedule is included with a legalisation survey business rule C696 will alert surveyors at pre-validation	
Action	Supporting document 'Area Schedule' now bundles to the CSD Plan (RCS 2010), Record of Survey (CSR 2021) and the Title Plan.	





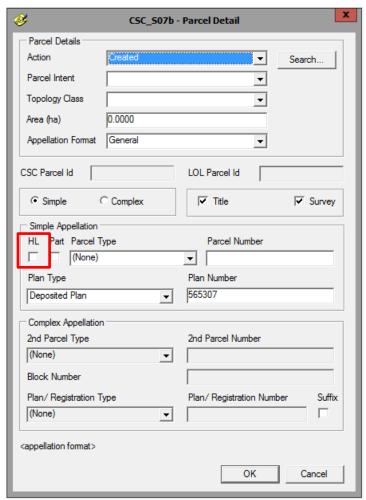


Title	Automated Schedule/Memorandum – Line Spacing has disappeared		
Defect	LOLCM-2665 (Internal and External)		
Description	Line spacing in the Automated Schedule/Memorandum is not displaying correctly.		
Action	ion FIXED		
	Line spacing between different 'Purposes' and 'Schedules' has been amended.		

Title	Automated Schedule/Memorandum – Increase Characters for Fields
Enhancement LOLCM-2332 (Internal & External)	
Description	The Benefitted Land (Dominant Tenement) field, in the automated Schedule/Memorandum, has had the number of characters allowed to be entered increased to allow for more entries to be entered.
Action	FIXED The number of characters has increased.

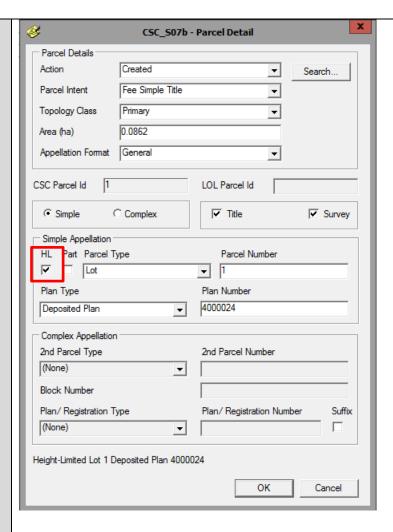
Title	Supporting Documents – Field Information and Water Boundary Record	
Enhancement LOLCM-2611 (Internal and External)		
Description	 Changes to the Cadastral Survey Rules 2021 require a CSD to include: All relevant field information (r71(e)) An accurate record of the position of any new water boundary (r71(f)) 	
Action	The following two documents can be attached to the CSD as a machine-readable colour pdf. • Supporting document type 'Field Note' – now renamed 'Field Information' • New supporting document type 'Water Boundary Record'	

Title Appellations – Height Limited Enhancement LOLCM-2066 (Internal and External) Where a primary or non-primary parcel is height-limited, the pre-fix 'Height Limited' must be used in the appellation CSR 2021 r43. Note this only applies to Lots, Areas and Sections. It does not apply to Unit parcels or Maori Land. The CSC_S07b – Parcel Detail screen has been modified to accommodate this enhancement. Action Action Where your primary or non primary parcels have an upper or lower limit, this checkbox must be selected



The Height Limited checkbox shall only be used against the following Parcel Types:

- Lots
- Areas (includes Flats/Cross lease plans)
- Sections



NOTE:

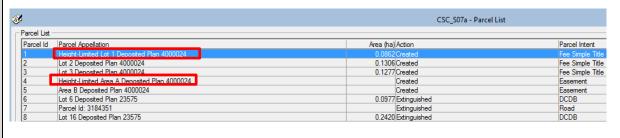
The Height Limited checkbox has no connection to the Easement 'Height Limited' field in the automated Schedule/Memorandum

The Height Limited checkbox will not be applied to the following Parcel Types:

- Principal Units
- Accessory Units
- FDU
- Units

Where the Height Limited checkbox has been selected, the appellation will display in the following formats

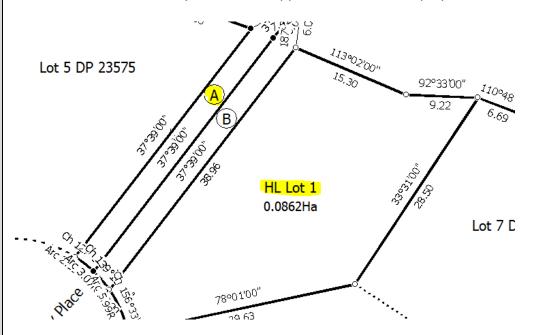
 The CSC_S07a – Parcel List screen – appellations will be displayed as Height-Limited Lot 1 DP <number>'



• ALL Spatial windows – appellations will be displayed as 'HL Lot 1 <plan number>'. Below is an example of the Capture Spatial window in Workspace:



• Plan Generation/Layout Sheets - appellations will be displayed as shown below:



• Survey Header page of CSD Plan/Record of Survey and Title Plan – appellations will be displayed as shown below:

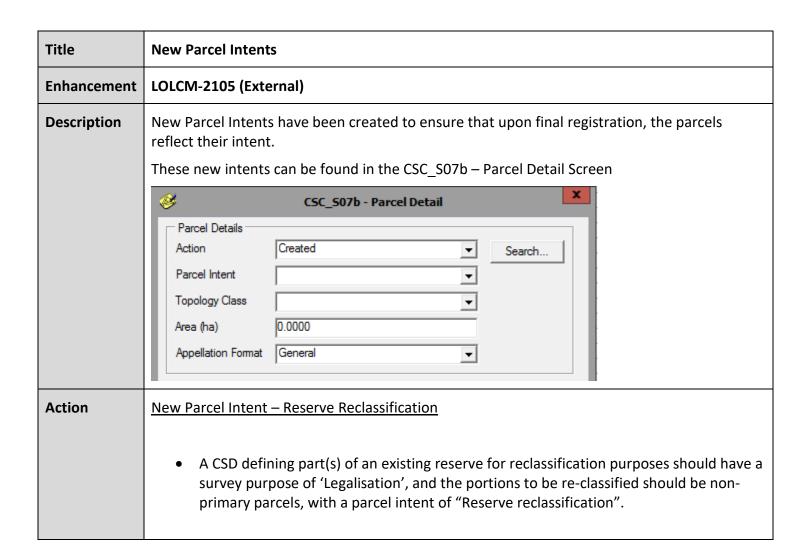
Referenced Surveys				
Survey Number	Land Dis	strict	Bearing Cor	rrection
DP 11033	Otago		0°00'00"	
DP 23575	Otago		0°00'00"	
DP 319850	Otago		0°00'00"	
Territorial Authorities				
Waitaki District				
Created Parcels				
Parcels		Parcel Intent	Area	RT Reference
Height-Limited Lot 1 Deposited Plan 4000024		Fee Simple Title	0.0862 Ha	
Height-Limited Lot 1 Deposit	Lot 2 Deposited Plan 4000024			
		Fee Simple Title	0.1306 Ha	
	4		0.1306 Ha 0.1277 Ha	
Lot 2 Deposited Plan 400002	4 4	Fee Simple Title		
Lot 2 Deposited Plan 400002 Lot 3 Deposited Plan 400002	4 4 sited Plan 4000024	Fee Simple Title Fee Simple Title		

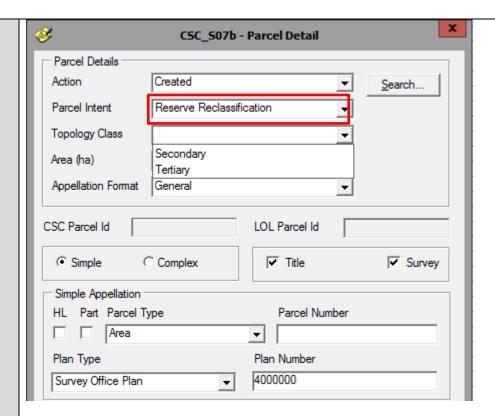


Where a parcel has a height limited appellation (as well as cross leases etc), vertical extents must be depicted in the survey and title diagrams.

LandXML

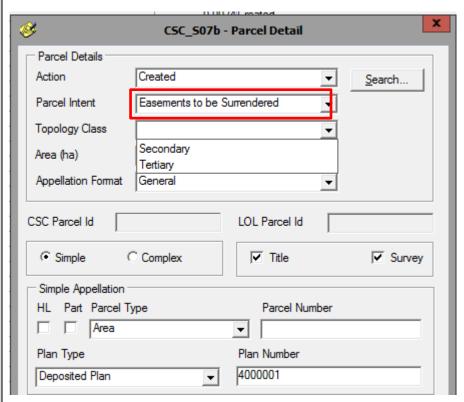
- Parcels being created in the LandXML file must be "HL Lot 1' (NOTE this only applies once 3rd party vendors have applied this to their software to allow selection of this element)
- Parcel imported without 'HL' in the LandXML file can be edited in the CSC_S07b Parcel Detail screen.





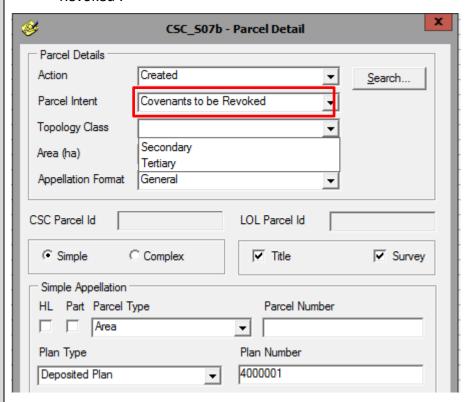
New Parcel Intent – Easements to be Surrendered

• Where a portion of an easement is to be surrendered it must use the parcel intent 'Easements to be Surrendered'.



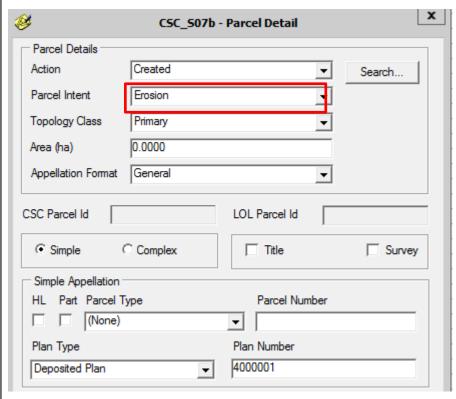
New Parcel Intent – Covenants to be Revoked

• Portions of covenants to be revoked must use the parcel intent 'Covenants to be Revoked'.



New Parcel Intent - Erosion

• Erosion must now be used instead of Hydro to identify parcels of land that have been eroded in terms of CSR 2021 r10(2)(b)



An area is not required for erosion parcels

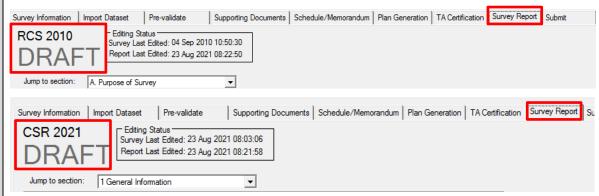
•	For erosion parcels, ensure the Title and Survey boxes in the CSC_S07b – Parcel Detail
	screen are unchecked (same as if creating a Hydro parcel)

• In Layout Sheets, user annotation 'Erosion' is still required to be added to one of these parcels (r87 and 103)

Title	Transition Period		
Enhancement	LOLCM-2094 (Internal & External)		
Description	Landonline must be able to run two versions of the business rules in parallel during the transition period.		
	The transition period commences 30 th August 2021 and ends 24 th February 2022.		
	During the transition period, surveys can be created and validated either against the RCS 2010 or the CSR 2021 business rules.		
	After the transition period, all surveys in Landonline must be worked on in terms of the CSR 2021 business rules. Surveys certified, but not yet validated can continue to be processed in terms of the RCS 2010 business rules.		
Action	DURING THE TRANSITION PERIOD (30 th August 2021 – 24 th February 2022)		
	Workspace - CSL S02 – Manage Survey Transaction		
	LandXML - When a LandXML file is imported during the transition period, there is an option to choose if the data should be pre-validated against RCS 2010 or CSR 2021 rules – choose the appropriate rule version for your XML file		
	Eandonline Workspace		
	Message: 125850 Do you wish to pre-validate using RCS-2010? • If you choose 'Yes' your dataset will be pre-validated using RCS 2010 • If you choose 'NO' your dataset will be pre-validated using CSR 2021 Make sure you select the correct option for the data you have imported/captured. Pre-validation - During the transition period, there is an option to change the pre-validation		
	rule version (RCS 2010 or CSR 2021) on the Pre-validate tab. (It is recommended NOT to go from CSR 2021 back to RCS 2010)		
	Survey Rule Version: C RCS-2010 C CSR-2021 Batch Pre-validate		

Dataset Capture - During the transition period, the affected drop-down lists on the Dataset Capture screens will display RCS 2010 values if the rule selected for pre-validation is RCS 2010. Otherwise, CSR 2021 values will be displayed. The values will be validated against the rule version selected on the Pre-validate tab.

Survey Report - The Survey Report tab will display the RCS 2010 questions if the selected RCS version is RCS 2010. Otherwise, CSR 2021 survey report questions will be displayed.



Certification - If the pre-validation is set to RCS 2010 the RCS 2010 certification will be used. Otherwise, CSR 2021 certification will be used

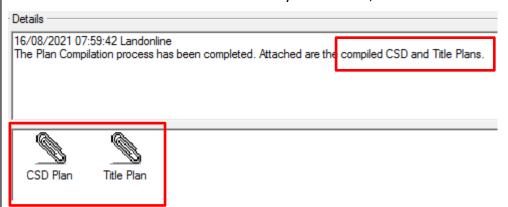
Submit - The submit validation rules for the selected rule version will be used when a user submits their survey.

Online Messages/Notices | Reports

Online messages/notices –any wording in the online messages/notices will reflect the rule version used at Capture

435642 Job Number 6 Complete	D	The Plan Compilation process has been completed. Attached are the compiled Record of Survey and Title Plans.
435642 Job Number 6 Complete	D	The Plan Compilation process has been completed. Attached are the compiled CSD and Title Plans.

CSD Plan – If the rules version of the survey is RCS 2010, then 'CSD Plan' will be used



Record of Survey - If the rules version of the survey is RCS-2021, then 'Record of Survey' will be used. (Refer to LOLCM-2073 for the wording changes).



AFTER THE TRANSITION PERIOD ENDS

Workspace - CSL SO2 - Manage Survey Transaction

The following must comply with CSR 2021:

- LandXML Any 2010 elements that are no longer used under the CSR 2021 will not import
- Dataset Capture
- Survey Report
- Submit

Online Messages/Notices | Reports

- Online Messages/Notices All messages and notices will refer to CSR 2021
- Record of Survey All new plans created will be called Record of Survey and Title Plan.

NOTE:

For other further transitional documentation click on the following link:

https://www.linz.govt.nz/land/surveying/rules-standards-and-guidelines/cadastral-survey-rules-2021-csr-2021-implementation#transitional

Title	Business Rules C481, C488 and C499 to be made Historic	
Enhancement	LOLCM-2072 (Internal and External)	
Description	Some rules, run under the RCS 2010, are no longer required to be run under the CSR 2021 so will be removed.	
Action	Removed under the CSR 2021 as 'Defined by Survey', 'Defined by Adoption' and 'Accepted' no longer apply:	
	C481 - Boundary points required to be Defined by Survey,	
	C488 - Class of adopted boundaries appropriate (Class C)	
	C499 - Class of Accepted boundaries appropriate	
	All boundary marks and points are now captured as 'Boundary'.	

Title	Record of Survey – Wording Changes
Enhancement	LOLCM-2073 (Internal and External)
Description	Wording that was used under the RCS 2010 has been updated to reflect the CSR 2021
Action	'CSD Plan' has been renamed 'Record of Survey' All references to 'CSD Plan' have been removed and will now display 'Record of Survey' in the following areas: Business rules run at Pre-validation Plan Layout Sheets (Preview) Plan Generation Compilation messages Plan Generation compiled images Searches Tree Structured Text View Surveyors Declaration: Survey Declaration shall be shown with the following wording: 'I [name], being a licensed cadastral surveyor, certify that— (a) this dataset provided by me and its related survey are accurate, correct, and in accordance with the Cadastral Survey Act 2002 and Cadastral Survey Rules 2021; and (b) the survey was undertaken by me or under my personal direction.' References to Rules: All references to rules will be CSR 2021

Survey Fillish Date is now Date of Survey	
All references to Survey Finish Date have been updated to 'Date of survey' in the following	

• Survey Header

areas:

• Business rules run at Pre-validation

Title	Rule Numbering
Enhancement	LOLCM-2070 – (Internal and External)
Description	The CSR 2021 has introduced the need for renumbering or creating new business rules.
Action	All business rules associated with CSR 2021 have been given a pre-fix 600 to distinguish them from existing business rules that begin with a 400 or 500. For example, C640 checks for CSNMs on a CSR 2021 CSD and C440 checks for CSNMs in an RCS 2010 CSD. Some entirely new business rules have also been developed as described in this document.
	For more information on business rules see our pre-validation report explanation version 7.0 for CSR 2021 click on the following link:
	https://www.linz.govt.nz/land/surveying/csd-preparation/landonline-e-survey-pre-validation

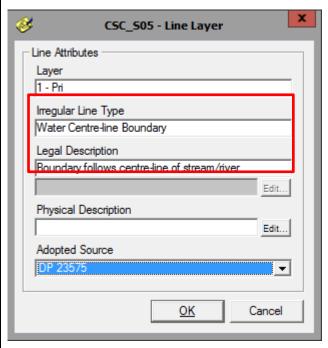
Title	Horizontal Datum Connection
Enhancement	LOLCM-2071
Description	The Cadastral Survey Rules 2021 require a new boundary point or an old and new boundary mark on a primary parcel being created to be connected to a cadastral survey network mark (CSNM) r17(1). A new business rule has been created to replace the existing C440 rule.
Action	Rule C640 verifies a qualifying boundary point is connected to a CSNM where one exists within 1000m. If there is no CSNM within 1000m it checks that any CSNM is connected to. The C640 test is based is based on the CSNM being assigned a NZGD2000 coordinate with a Landonline order 6 or better and is not dependent on the mark purpose being set as CSNM/VCM. For the C640, connection to a CSNM is no longer dependant on class.

Title	Water, Water Centre-line and Irregular Boundaries
Enhancement	LOLCM-2074, LOLCM-2110 (Internal and External)
Description	CSR 2021 rule 11 provides for a new form of boundary 'water centre-line boundary'. Rule 29 no-longer requires a class against a Water or Irregular Boundary.

Action

Changes made to the CSC_S05 – Line Layer screen:

- CSC_S05 Line Layer screen no longer displays a field for Class
- CSC_S05 Line layer screen new Irregular Line Type = "Water Centre-line Boundary"
- Where "Water Centre-line boundary" is selected the Legal Description field will be auto populated with "Boundary follows centre-line of stream/river".
- The Physical Description field must remain blank where Water Centre-line Boundary line type is used.

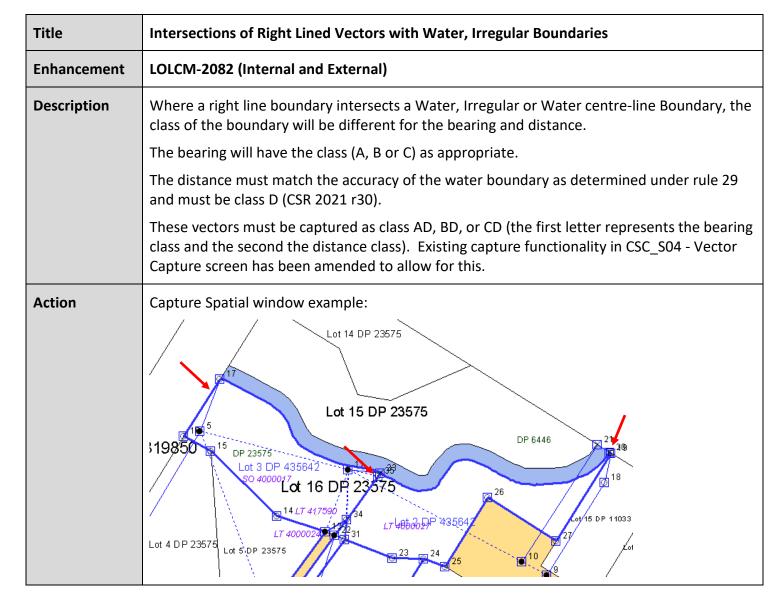


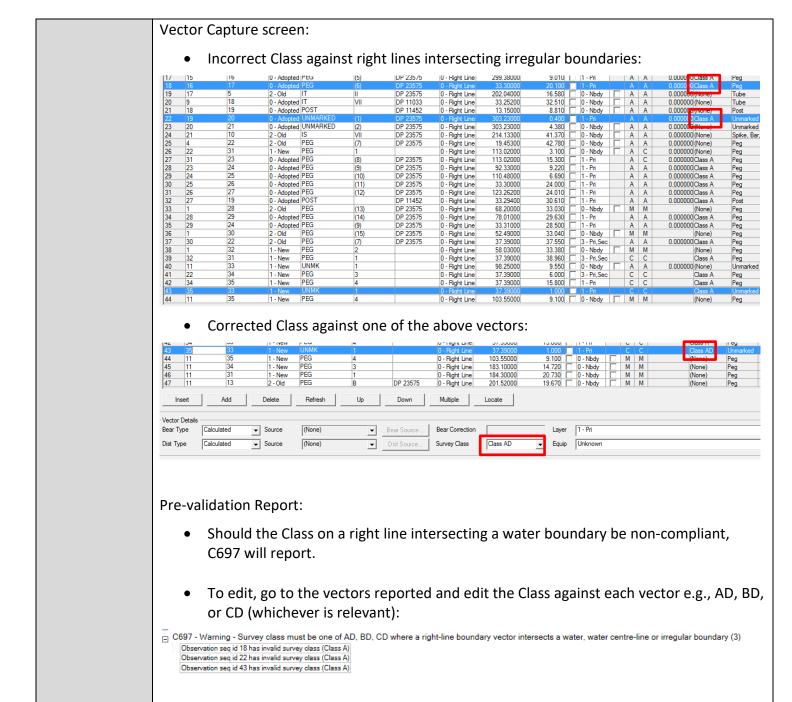
Pre-validation no longer runs a rule to test for Class on a water or irregular boundary.

C602 runs if a legal and/or physical description has not been specified in the CSC_S05
 Line Layer screen:

© C602 - Warning - A legal and/or physical description has not been specified for the following water boundaries between marks (CSR 2021 r88 & r104). (1)

Survey Information Import Dataset Pre	re-validate Supporting Documents	Schedule/Memorandum	Plan Generation TA	Certification	Survey Report
Submit Options					1
Notify when Scanning Complete					
Approved Copy					
		_			
Send Approved Copy	Online Messaging	nail			
Batch Options					
☐ Batch Submit					
Survey Attributes					
Does this survey:					
define a stratum boundary or reference a ve	ertical datum?			O Yes C	No
right-line a water, water centre-line or irregula	lar boundary?			O Yes C	No
define any Permanent Structure Boundaries	s (other than Unit Title and Cross lease bo	undaries)?		O Yes (No
contain a limited as to parcels record of title	*	upport a claim for Adverse Pos			No
contain land defined by a Diagram on Trans					No
contain boundaries that have been recalcula	lated in excess of applicable accuracy re	uirements?		O Yes (No.





Title	Accuracy Standards
Enhancement	LOLCM-2065
Description	With changes to the CSR 2021, Landonline has moved to a single tier of accuracy standards and some standards are changing.
Action	Accuracy standards now meet the CSR 2021 rules. These are applied and run against each Survey Purpose and the data captured. Results can be seen in the two adjustment reports after Pre-validation has been run.

Title	Mark Condition and Mark Purpose
Enhancement	LOLCM-2083
Description	Mark Conditions and Purposes have been amended to align with the CSR 2021.
Action	 Mark Conditions: New: 'Impracticable to Mark' – to be used when a boundary point cannot be marked. 'Uncertain Existence' – used only by LINZ when members of the public provide feedback on geodetic marks unable to be located.

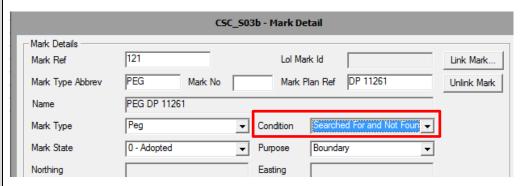
• Amended:

- 'Not Found' is now 'Searched for and Not Found'
- 'Reliably Placed/Found' is now 'Reliably Placed'

• Removed (no longer used):

- 'Conversion'
- 'Emplaced'

The full list of new and existing Mark Conditions can be found in the CSC_S03b – Mark Detail screen



Mark Purposes:

New:

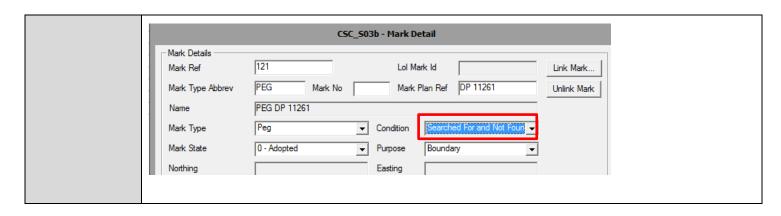
- 'Boundary' to be used for all primary and non-primary boundary points.
- 'CSNM/VCM' used to depict cadastral survey network marks or vertical control marks with a triangle symbol.

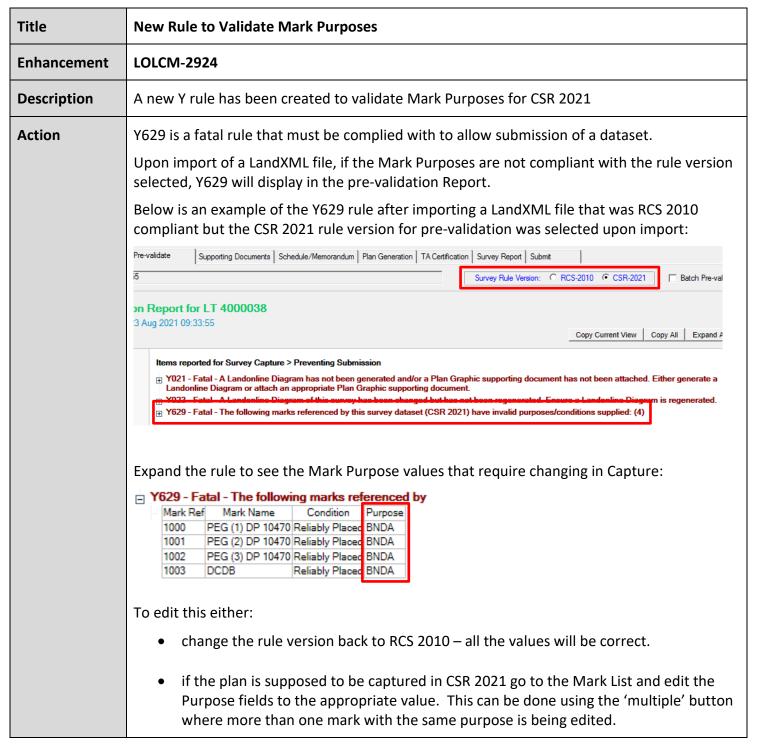
NOTE: Where a survey mark is both a CSNM/VCM and PRM the PRM mark purpose must be used.

Removed (no longer used for CSR 2021):

- 'Witness'
- 'Witness/Boundary'
- 'Defined by Survey'
- 'Defined by Adoption'
- 'Accepted'

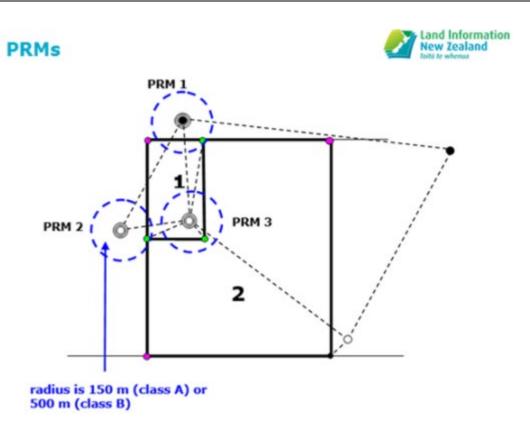
The full list of new and existing Mark Purposes can be found in the CSC_S03b – Mark Detail screen





Title	Vector Capture					
Enhancement	LOLCM-2121					
Description	Under rule 89 of Cadastral Survey Rules 2021, measured vectors are required to be shown of the survey diagram. To show vectors on the survey diagram they must be captured in the Record of Survey. Therefore, the new business rules will focus on the capture requirements in the record of survey and not what is shown on the survey diagram.					
Action	 C620 - This rule checks the Record of Survey includes at least 1 measured vector to every new or old survey mark as required by CSR 2021 r89(a). C621 - This rule checks the Record of Survey includes measured vectors to at least 2 other new or old non-boundary marks for every new non-boundary mark that is not disturbed as required by CSR 2021 r89(b). C622 - This rule checks to ensure Record of Survey includes measured vectors between each new or old boundary mark and a PRM as required by CSR 2021 r89(c). C623 - This rule checks to ensure at least 2 points on every non-primary parcel are connected to a minimum of 2 underlying primary parcel points either through being coincident or by vectors as required by CSR 2021 r89(g)(i). (Note this only runs where Dataset Type = Survey) 					

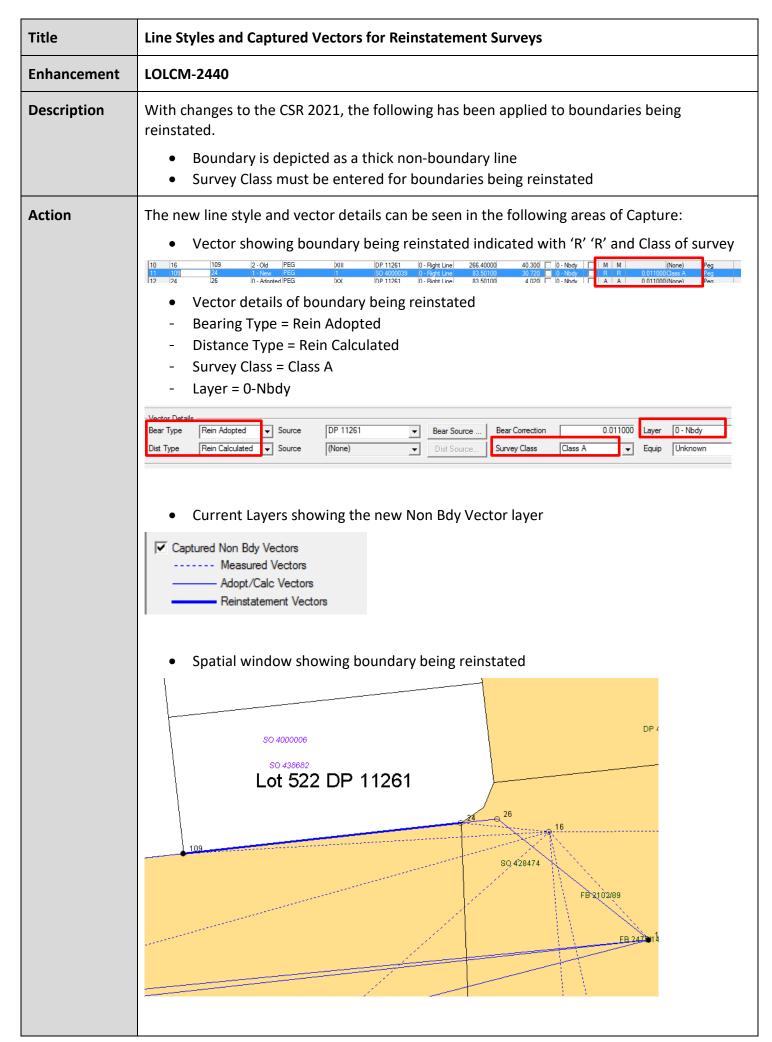
Title	Reference Mark Rules
Enhancement	LOLCM-2068
Description	With changes to the CSR 2021, the following changes are required with relation to reference marks (r32).
	Where a boundary point is defined by survey it must:
	 a) be within 150m of a PRM if it is Class A (currently this is 300m) b) be within 500m of a PRM if it is Class B c) be within 1000m of a PRM if it is Class C
	The survey must include a minimum of 3 PRM's and each PRM must be within the applicable distance.
	An adopted mark must not be used as a PRM (this is current functionality)
Action	New business rules C681 and C682 have been created to run tests against PRM marks.
	Below is an example of the pre-validation results - C681 is compliant but C682 is reporting as a warning and should be addressed:
	⊕ C681 - Compliant - A PRM is within the prescribed distance of a boundary point that is required to be referenced [CSR 2021 r32(1)].
	⊕ C682 - Warning - The minimum number of PRMs (3) have not been included in the survey [CSR 2021 r32(2)].

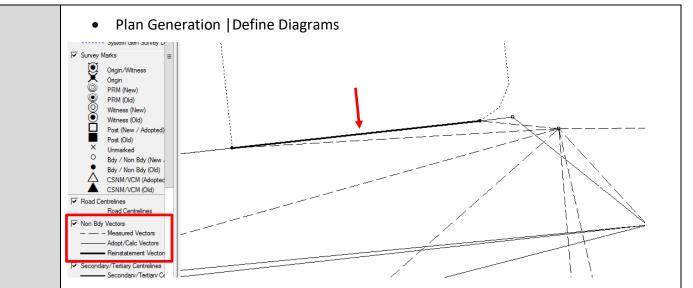


This diagram illustrates the new requirements for reference marks on a simple 2 lot rural subdivision. The 3 new boundary positions illustrated by the solid green circles must be defined by survey and require PRMs within 150m.

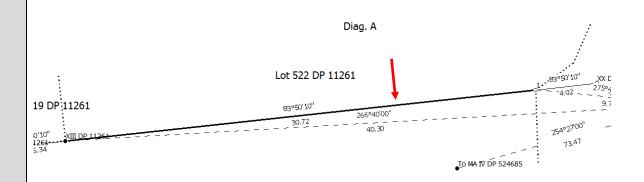
The survey must include 3 PRMs. On a smaller urban subdivision, it may be possible that each new boundary position is within 150m of a single PRM. In this case 2 additional PRMs are still required, each within 150m of one of these boundary points.

Title	New Survey Purposes for Reinstatement Surveys
Enhancement	LOLCM-2069 and LOLCM-2239 (Internal and External)
Description	Where the boundary is subject to conflict or is affected, a 'Complex Boundary Reinstatement' CSD will be required CSR 2021 r114 (2). In other situations, a 'Simple Boundary Reinstatement' CSD can be used CSR 2021 r114 (4).
Action	 Simple Boundary Reinstatement' (replaces 'Boundary Marking – Monumentation CSD' and 'Boundary Marking – Reinstatement CSD') Complex Boundary Reinstatement' (replaces 'Boundary Marking - Full CSD – Conflict') NOTE: A simple boundary reinstatement survey must have (CSR 2021 r117): Record of Survey (Digital data) which includes a reinstatement diagram Dataset Description Simplified Survey Report All relevant field information





• Plan Generation | Layout Sheets showing boundary being reinstated

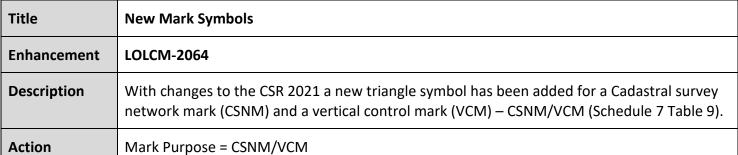


• Mark and Vector Report

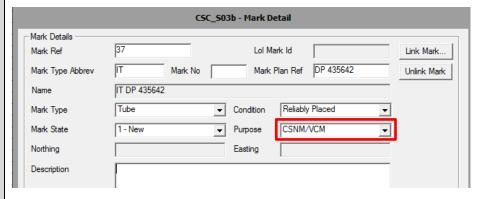
Mark and Vector

Survey Number SO 4000039
Meridional Circuit Mount Pleasant 2000

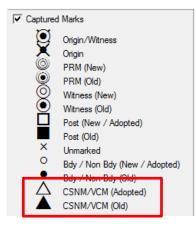
From	То	Code	Bearing		Adpt Surv	Bearing Correction	Distance		Adpt Surv	Class
BP RIMU SO 4000039	IT II DP 62967	ob4	89°53'30"	М			259.17	М		
BP RIMU SO 4000039	IS X DP 461688	ob5	167°26'00"	М			85.87	М		
IS X DP 461688	MA II SO 401883	ob14	271°45'00"	Α	DP 461688	0°00'00"	11.96	Α	DP 461688	
MA II SO 401883	BP RIMU SO 4000039	ob15	355°23'30"	М			83.73	М		
BP RIMU SO 4000039	MA IV DP 524685	ob6	254°27'00"	М			73.47	М		
MA IV DP 524685	NA I DP 302416	ob13	84°35'30"	С			82.04	С		
NA I DP 302416	BP RIMU SO 4000039	ob11	317°38'00"	М			16.18	М		
BP RIMU SO 4000039	MA DP 70818	ob7	228°37'00"	М			31.37	М		
MA DP 70818	NA I DP 302416	ob10	75°42'00"	Α	DP 70818	0°00'00"	35.56	Α	DP 70818	
BP RIMU SO 4000039	PEG XIII DP	ob8	266°40′00″	М			40.30	М		
PEG XIII DP 11261	PEG 1 SO 4000039	ob16	83°50′10″	R	DP 11261	0°01′10″	30.72	R	DP 11261	Class A
PEG 1 SO 4000039	PEG XX DP 11261	ob17	83°50′10″	Α	DP 11261	0°01'10"	4.02	Α	DP 11261	
PEG XX DP	NA I DP 302416	ob18	128°50'10"	Α	DP 11261	0°01'10"	21.33	Α	DP 11261	



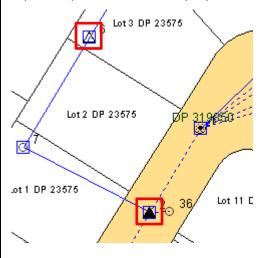
Mark Purpose = CSNM/VCM

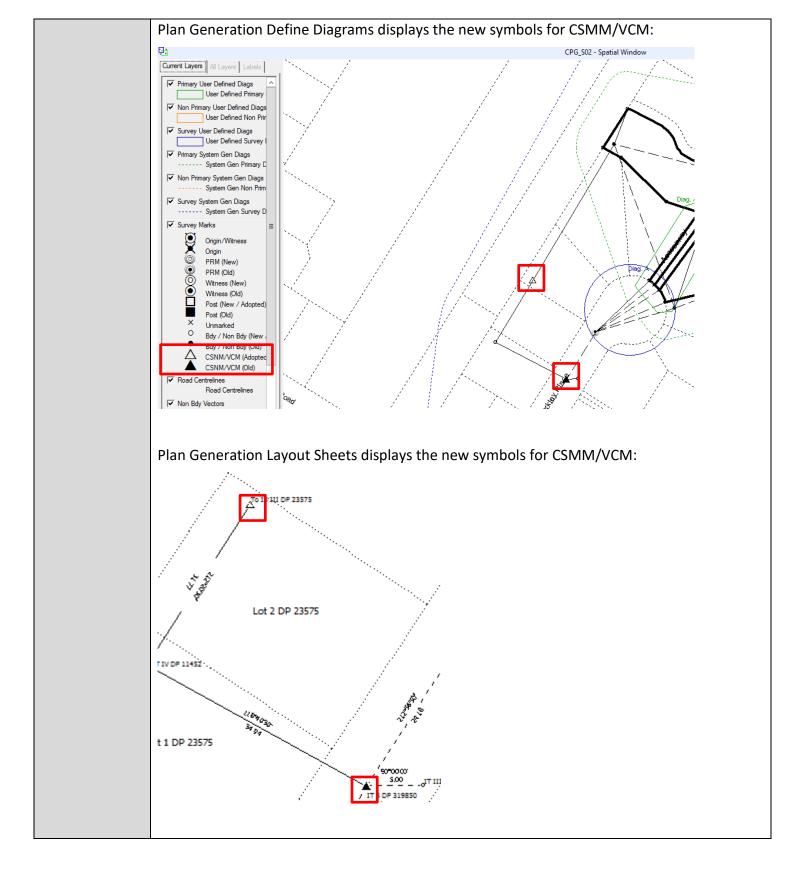


Capture 'Current Layers' tab displays the new symbols for CSMM/VCM:



Capture Spatial window displays the new symbols for CSMM/VCM:





Title	omated Survey Report Changes						
Enhancement	LOLCM-2117						
Description	hanges to the Survey Report were required to ensure the automated survey report reflence he new requirements of the CSR 2021 r72.						
Action	 When using the Automated Survey Report, questions have been updated to align with rule 72. Depending on the Survey Purpose and data captured will also depend on the questions to report against. 						

Title	LandXML Changes			
Enhancement	LOLCM-2891			
Description	LandXML mappings related to CSR 2021 changes.			
	This involves changing the exchange mapping between the XML and Landonline for use by external surveyors. There are new and updated elements to the XML.			
	3 rd party vendors have been sent information on the changes required to update their software.			
	NOTE: LandXML files will only contain these changes once vendors have updated their software. The transition period still allows for the current versions to be imported.			
	See transition period and converting data after import documentation at the following link:			
	https://www.linz.govt.nz/land/surveying/rules-standards-and-guidelines/cadastral-survey-rules-2021-csr-2021-implementation#transitional			
Action	Survey Class:			
	XML Attribute is 'class' and is optional in the XML file.			
	When 'class' is used in a LandXML file it will import into the Survey Header in Landonline. Three new classes have been created – AD, BD, and CD:			
	Example for survey – SurveyHeader class="A" Example for survey – SurveyHeader class="B" Example for survey – SurveyHeader class="C" Example for survey – SurveyHeader class="D" Example for survey – SurveyHeader class="AD" Example for survey – SurveyHeader class="BD" Example for survey – SurveyHeader class="BD"			
	Observation Survey Class:			
	 XML Attribute is azimuthAccClass and is optional in the XML file. XML Attribute is distanceAccClass and is optional in the XML file. 			
	The boundary vector intersecting a water, water centreline and irregular boundary must be defined to class A, B or C accuracies and the distance is class D.			

Classes AD, BD and CD have been added to the Survey Header screen to allow for individual vectors to have these captured against them. The first letter represents the bearing class (A) and the second letter the distance (D).

```
Example for observational basis – ReducedObservation azimuthAccClass="AD" Example for observational basis – ReducedObservation distanceAccClass="AD" Example for observational basis – ReducedObservation azimuthAccClass="BD" Example for observational basis – ReducedObservation distanceAccClass="BD" Example for observational basis – ReducedObservation azimuthAccClass="CD" Example for observational basis – ReducedObservation distanceAccClass="CD"
```

```
Example for observational basis – ReducedArcObservation azimuthAccClass="AD" Example for observational basis – ReducedArcObservation azimuthAccClass="BD" Example for observational basis – ReducedArcObservation azimuthAccClass="CD"
```

Surveys may include multiple classes. The XML file may have a class of survey for the survey. This class of survey may or may not map to each observation. So, if there are one or more observations with a different class of survey, this will be applied on an observation basis in the XML file.

XML Attribute is azimuthAccClass and is optional in the XML file.

```
Example for survey – SurveyHeader class="A"

Example for observational basis – ReducedObservation azimuthAccClass="A"

Example for observational basis – ReducedObservation azimuthAccClass="AD"

Example for observational basis – ReducedArcObservation azimuthAccClass="B"
```

Observation Type:

A new bearing/distance type has been introduced for reinstated boundaries where the primary parcel is not being created. This can also be used on a LT easement plan or similar.

They can be entered against an observation as either 'reinadopted' or 'reincalculated' or 'rein adopted' or 'rein calculated' These vector types display with a thick line type once imported into Landonline.

• XML Attributes are azimuthType, distanceType, and arcType, and all are recommended in the XML file.

```
Example – ReducedObservation azimuthType="adopted" distanceType=" calculated " Example – ReducedObservation azimuthType="reinadopted" distanceType="reincalculated" Example - ReducedObservation azimuthType=" rein adopted" distanceType="rein calculated" Example – ReducedArcObservation arcType="calculated"
```

Equipment Type:

• XML Attribute is equipmentUsed and is optional in the XML file.

```
Example – ReducedObservation equipmentUsed="theodolite EDM" Example – ReducedArcObservation equipmentUsed="unknown"
```

There is no action is required when using the above two attributes, however, please note the following:

equipmentUsed = "GPS" will map to "GNSS" in the Landonline table

equipmentUsed ="theodolite EDM" will map to "Total Station" in the Landonline table.

Mark Purpose:

XML Attribute is purpose and is required in the XML file.

Two new mark purposes have been created. Boundary (a mark that is used as a boundary mark in the survey) and CSNM/VCM (a mark that is used as either a cadastral survey network mark or vertical control mark.

Example – SurveyMonument purpose="non boundary"

Example - SurveyMonument purpose="boundary"

Example - SurveyMonument purpose="csnm/vcm"

Mark Condition:

• XML Attribute is condition and is recommended in the XML file.

Example - Monument condition="reliable"

Below are two changes made to Mark Conditions the first replaces the former "not found" and the second one is new:

Example – Monument condition="searched for and not found"

Example - Monument condition="impracticable to mark"

The following still values still map, but will appear with the new value in the Landonline table:

- "not found" will import with the new value "Searched for and Not Found"
- "reliable" will import with the new value "Reliably Placed"

Parcel Class:

Parcel Class indicates the use of the parcel. Landonline uses this information in combination with the Survey Purpose to derive the Parcel Intent as well as the Topology Class.

XML Attribute is class and is recommended in the XML file.

Example - Parcel class="allotment"

The following table indicates what each parcel class (LandXML enumeration) maps to in Landonline - based on the Survey Purpose (e.g. LT Subdivision). Changes made are highlighted yellow:

Landonline Survey Purpose	LandXML Enumeration	Landonline Parcel Intent	Landonline Topology Class
Amalgamations	allotment	Maori	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	strata	Maori	Strata
Application	allotment	Fee Simple Title	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	<mark>erosion</mark>	Erosion	Primary
	hydrography	Hydro	Primary

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easement centerline Easement Secondary Centreline First Stage Unit Plan accessory building Accessory Unit No Topology				
First Stage Unit Plan accessory building Accessory Unit No Topology				•
		easement centerline	Easement	Secondary Centreline
building Principal Unit No Topology	First Stage Unit Plan	accessory building	Accessory Unit	No Topology
		building	Principal Unit	No Topology

		C	NI - Tarant
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
First Stage Unit Plan			
with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
		Cross lease Subsidary	
Flat plan/Cross-lease	accessory building	Building	No Topology
	building	Cross Lease Building	No Topology
	covenant	Right of Use Area	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Flat plan/Cross-lease		Cross lease Subsidary	
with Survey Sheet	accessory building	Building	No Topology
	building	Cross Lease Building	No Topology
	covenant	Right of Use Area	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	No mappings for		
Graphical Description	Graphical Description		
Lease	covenant	Land Covenant	Tertiary
	cross parcel easement	Easement	Tertiary
	cross parcel easement		10.00.7
	centerline	Easement	Tertiary Centreline
			- · · · / · · · · · ·
	Leasement	l Easement	Secondary Centreline
	easement centerline	Easement Easement	Secondary Centreline Secondary
	easement centerline	Easement	Secondary
Legalisation	easement centerline lease	Easement Lease	Secondary Tertiary
Legalisation	easement centerline lease allotment	Easement Lease Fee Simple Title	Secondary Tertiary Primary
Legalisation	easement centerline lease allotment cross parcel easement	Easement Lease	Secondary Tertiary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement	Easement Lease Fee Simple Title Easement	Secondary Tertiary Primary Tertiary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline	Easement Lease Fee Simple Title Easement Easement	Secondary Tertiary Primary Tertiary Tertiary Tertiary Centreline
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement	Easement Lease Fee Simple Title Easement Easement Easement	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline	Easement Lease Fee Simple Title Easement Easement Easement Easement	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement easement centerline erosion	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement easement centerline erosion hydrography	Easement Lease Fee Simple Title Easement Easement Easement Easement Easement Hydro	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement easement centerline erosion hydrography legalisation	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement easement centerline erosion hydrography legalisation railway	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline erosion hydrography legalisation railway road	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway Road	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary Primary
Legalisation	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline erosion hydrography legalisation railway road strata	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway Road N/A	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary Primary Strata
	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline erosion hydrography legalisation railway road strata reserve	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway Road N/A Reserve reclassification	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary Strata Secondary
Legalisation Limited Title	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline erosion hydrography legalisation railway road strata reserve accretion	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway Road N/A Reserve reclassification Accretion	Secondary Tertiary Primary Tertiary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary Strata Secondary Primary Primary
	easement centerline lease allotment cross parcel easement cross parcel easement centerline easement easement centerline erosion hydrography legalisation railway road strata reserve	Easement Lease Fee Simple Title Easement Easement Easement Easement Erosion Hydro Legalisation Railway Road N/A Reserve reclassification	Secondary Tertiary Primary Tertiary Tertiary Centreline Secondary Secondary Centreline Primary Primary Primary Primary Primary Strata Secondary

	cross parcel eacoment		
	cross parcel easement centerline	Easement	Tortiany Controlina
	easement	Easement	Tertiary Centreline Secondary
		Easement	Secondary Centreline
	easement centerline		·
	erosion la constant	Erosion Liveles	Primary
	hydrography	Hydro	Primary
	strata	Fee Simple Title	Strata
LT Subdivision	accretion	Accretion	Primary
	allotment	Fee Simple Title	Primary
	covenant	Land Covenant	Tertiary
(LandXML schema			
v1.1)	marginal strip	Marginal Strip	Tertiary
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
		Easement to be	
	surrendered easement	surrendered	Secondary
		Covenant to be	
	revoked covenant	revoked	Secondary
	erosion	Erosion	Primary
	hydrography	Hydro	Primary
	strata	Fee Simple Title	Strata
Mining	covenant	Covenant Area	Tertiary
Mining	covenant		reruary
(5)		Nohoanga (Campsite)	
Nohoanga (Campsite)	covenant	Entitlements	Tertiary
Parliamentary	allotment	Statutory	Primary
	cross parcel easement	Statutory	Tertiary
	cross parcel easement		
	centerline	Statutory	Tertiary Centreline
	easement	Statutory	Secondary
	easement centerline	Statutory	Secondary Centreline
	strata	Statutory	Strata
Partition	allotment	Maori	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement		,
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	road	Road	Primary
Droposod Liet	Tuau	Nuau	rilliary
Proposed Unit	and the state of	A	No Ton -1
Development	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Proposed Unit			
Development with			
Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement	_asement	7010019
	centerline	Easement	Tertiary Centreline
		Easement	Secondary
	easement		

	easement centerline	Easement	Secondary Centreline
Reclamation	reclamation	Reclamation Area	Primary
	hydrography	Hydro	Primary
Redevelopment Unit			
Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
Redevelopment Unit			
Plan with Survey Sheet	accessory building	Accessory Unit	No Topology
,	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		,
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centerline
Revesting	allotment	In Lieu of a Reserve	Primary
Roadway	road	Road	Primary
Roddway	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement	Lascinciit	retetaty
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	strata	Road Strata	Strata
Stage Unit Dlan			
Stage Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit Common Property	No Topology
	covenant	Easement	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tortiony Controlino
		Easement	Tertiary Centreline Secondary
	easement		Secondary Centreline
Characterist Diamentals	easement centerline	Easement	Secondary Centrelline
Stage Unit Plan with		A	No Topology
Survey Sheet	accessory building	Accessory Unit Principal Unit	No Topology
	building	<u>'</u>	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement	Facement	Tautiam Cantualina
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
a	easement centerline	Easement	Secondary Centreline
Standard Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Standard Unit Plan			
with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
1	easement centerline	Easement	Secondary Centreline

Statutory Easement/Right	cross parcel easement	Easement	Tertiary
Lasement/ Night	cross parcel easement	Lasement	reitiary
	- I	Facement	Tautiam Cantualina
/1	centerline	Easement	Tertiary Centreline
(LandXML schema			
v1.1)	marginal strip	Marginal Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
		Easement to be	
	surrendered easement	<mark>surrendered</mark>	<mark>Secondary</mark>
		Covenant to be	
	revoked covenant	revoked	Secondary
Statutory Vesting	allotment	Fee Simple Title	Primary
Statutory Vesting	cross parcel easement	Easement	Tertiary
	•	Lasement	reitiary
	cross parcel easement centerline	Facement	Tautiam (Cantualina
		Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	strata	Fee Simple Title	Strata
Substituted Proposed			
Unit Development	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		· c. c.a. y
	centerline	Easement	Tertiary Centreline
		Easement	Secondary
	easement		Secondary Centreline
	easement centerline	Easement	Secondary Centrenne
Substituted Proposed			
Unit Development with			
Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement		
	centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Units Plan in		-	1 / 22 10.23
Substitution	accessory building	Accessory Unit	No Topology
Substitution	accessory building	Accessory offic	No Topology
	huilding	Dringinal Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	covenant cross parcel easement	·	
	covenant cross parcel easement cross parcel easement	Common Property Easement	No Topology Tertiary
	covenant cross parcel easement	Common Property Easement Easement	No Topology Tertiary Tertiary Centreline
	covenant cross parcel easement cross parcel easement	Common Property Easement	No Topology Tertiary
	covenant cross parcel easement cross parcel easement centerline	Common Property Easement Easement	No Topology Tertiary Tertiary Centreline
Units Plan in	covenant cross parcel easement cross parcel easement centerline easement	Common Property Easement Easement Easement	No Topology Tertiary Tertiary Centreline Secondary
Units Plan in Substitution with	covenant cross parcel easement cross parcel easement centerline easement	Common Property Easement Easement Easement	No Topology Tertiary Tertiary Centreline Secondary
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline	Common Property Easement Easement Easement Easement	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline
	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building	Common Property Easement Easement Easement Accessory Unit	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building covenant	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit Common Property	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology No Topology
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building covenant cross parcel easement	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building covenant cross parcel easement cross parcel easement	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit Common Property Easement	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology No Topology Tertiary
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building covenant cross parcel easement cross parcel easement centerline	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit Common Property Easement Easement	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology No Topology Tertiary Tertiary Tertiary Centerline
Substitution with	covenant cross parcel easement cross parcel easement centerline easement easement centerline accessory building building covenant cross parcel easement cross parcel easement	Common Property Easement Easement Easement Easement Accessory Unit Principal Unit Common Property Easement	No Topology Tertiary Tertiary Centreline Secondary Secondary Centreline No Topology No Topology No Topology Tertiary

Parcels:

Where a primary or non-primary parcel (applies to Lots, Areas and Sections only) has an upper or lower limit, the pre-fix 'Height Limited' must be used in the appellation. **The LandXML Enumeration must be 'HL' as per example below**:

• XML Attribute is "name" and is required in the XML file.

Example – Parcel name="Lot 1"
Example – Parcel name="Marked A"
Example – Parcel name="Section 1"
Example – Parcel name="Principal Unit 1"
Example – Parcel name="HL Area A"

NOTE:

Height Limited (HL) in the appellation applied to Lots, Areas and Sections. It does not apply to Maori Land, Principal Units, Accessory Units, Units or Future Development Units.

If Height Limited is entered in full in the LandXML file it will not map into the Landonline tables.

In schedule/memorandums, easements can have height limited values added against them. This is different to having HL added against the appellation and there is no connection between the two.

A Height Limited parcel is different from a strata parcel – it will not always have the height information reflected in the use of the strata layer

Changes were made to Landonline Release 3.23 around acceptable appellation formats for Principal Units, Accessory Units and Future Development Unit parcels. The following table outlines those changes:

Parcel Type	Unique Identifier format	Correct Examples	Incorrect Examples
Principal Unit	A number or a number followed by a letter, or a letter followed by a number	Principal Unit 1Principal Unit 99ZPrincipal Unit A2	Principal Unit APrincipal Unit A1APrincipal 2A1
Accessory Unit	A number or a number followed by a letter, or a letter followed by a number	 Accessory Unit 1 Accessory Unit 1A Accessory Unit A2 	Accessory Unit AAccessory 2A1
Future Development Unit	A number or a number followed by a letter, or a letter followed by a number	 Future Development Unit 1 Future Development Unit 1A Future Development Unit A2 	 Future Development Unit A Future Development Unit 2A1