

# RESULTS Training

## Core Module 3 Obligation Reporting Submitting by ESF

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### RESULTS

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UserName: IDIRIMTSOI    Environment: PROD    Version: 4.12.0

## Welcome to the RESULTS System



2014-03-28

RESULTS(Reporting Silviculture Updates and Landstatus Tracking System) is a web-based application that provides clients and government staff direct on-line access to Provincial spatially enabled silviculture information. RESULTS will track and report silviculture accomplishments, administer approved stocking standards and evaluate free-growing progress on obligations.

Link to:

- [Application Website](#)

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Sept 2015

# Housekeeping

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Ask questions using CHAT

Ensure that you direct to Entire Audience – so everyone can read the question

If there is some else that is sitting in the session but no registered, please add their Name and email on the Evaluation form

Please complete the Evaluation Form – automatically available appears Immediately after session

You will receive email confirmation to a RESULTS Testing website.


If you are a new user or require access renewal, you must pass the test in order to obtain your RESULTS access. Please only complete the test after you completed all required modules for your required authority.

# Learning Objectives

- [Business Guidelines](#)
- [Guidance on Mandatory ESF](#)
- [Online or ESF Matrix](#)
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- [Submission Components](#)
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  - [Silviculture submission](#)
  - [Forest Cover submission](#)
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- [Mandatory vs. Edit rules](#)
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# Business Guidance

<http://www.for.gov.bc.ca/his/results/business.htm>



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RESULTS

Business and Policy Documentation

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Printer Version 

## Business and Policy Documentation

The following documents provide information on RESULTS policies and procedures.

→ [Submission Specifications](#)

### Submission Specifications

- [CF Memo \(RISS-Is\)](#) – Provincial memo from Jim Snetsinger, announcing RESULTS Information Submission Specifications: Licensee Submissions, a document that outlines the form and manner of reporting data to RESULTS.
- **NEW** [RESULTS Information Submission Specifications: Licensee Submissions \(Edition 4\)](#) – Edition 4 of the Silviculture Information Submission Guidebook describes submission specifications for electronic submissions to RESULTS via the Electronic Submission Framework;

Revisions to Edition 4 in response to input received by the Coastal Region Implementation Team (CRIT) and by users via the NRS Service Desk and Resource Practices Branch. **As per direction from the Deputy Minister to make basal area a mandatory requirement, Section 5.7.2.2. has been amended.** Other minor revisions have been implemented in order to increase clarity.

- **NEW** [RESULTS Information Submission Specifications: Licensee Submissions \(Edition 4 - Memo\)](#)
- [RESULTS Information Submission Specification - gf - Edition 4](#) - May 2014 **NEW** – Requirements for preparing and submitting information pertaining to government funded silviculture activities (treatments and surveys) to RESULTS.
- [Electronic submissions required](#) – Deputy minister letter notifying licensees that all silviculture reports and amendments are to be electronically submitted to the ministry as of June 1, 2005.

# Mandatory ESF



March 21, 2005

To: Forest Licensees

In the fall of 2004, the ministry communicated its intention, effective April 1<sup>st</sup>, 2005, to move to the exclusive use of electronic data transfer for cutting permits applications and amendments, road permit applications and amendments, and "as built" roads and silviculture reports. The ministry conducted a readiness assessment and has come to the following conclusions:

- The ministry computer systems are in place and operational. Electronic data is being accepted on a daily basis from a number of clients.
- There are ministry data issues that will cause some amendment submissions to be rejected. Work to correct this issue will be completed by April 1.
- Additional documentation and help packages are required for our clients.
- Some districts are still refining their business process and need additional time to prepare themselves to accept and process electronic submissions in order to better assist our clients in the transition.
- Some smaller licensees are still looking for additional guidance and assistance in testing their submission process.

For these reasons, we have decided to postpone the effective date from April 1 to June 1, 2005.

The ministry will be holding internal regional workshops to ensure that there is consistency in the procedure and process for electronic submissions.

Districts will also be establishing joint Electronic Submission Framework (ESF) working groups with industry to ensure that all parties are aware of the procedures and that they have contact information to assist with any issues arising from the transition.

These two initiatives will take place in the period leading up to the end of May.

Licensees with a small number of applications may find it more cost effective to use a service provider to prepare and submit electronic applications on their behalf. To assist in this, the ministry has compiled a list of service providers with proven capability. This list is available at: <http://www.for.gov.bc.ca/his/esf/serviceproviders.htm>.

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Ministry of  
Forests

Deputy Minister

Location:  
3<sup>rd</sup> Floor, 1520 Blanshard St.  
Victoria, British Columbia  
V8W 2E7  
CANADA

Mailing Address:  
PO Box 9525 5th Prov Govt  
Victoria, BC V8W 9C3  
Tel: (250) 366-5012  
Fax: (250) 953-3687

## Submission Specifications

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# Online or ESF Matrix

Submission Component	ESF	Online
Opening Definition Tenure & Site Plan Information	Yes	No Opening and Standards Unit Spatial required
SU Modifications*	Yes	Conditional ESF where there is changes to Standards Unit (additions, deletions) or changes in spatial.
Disturbance	Yes	Yes
Silviculture Activity	Yes	Yes Mandatory ESF for government funded activities (FE, JS)
Forest Cover *	Yes	No Forest Cover Spatial required
Milestone	Yes	Yes
s.108 Application	No	Yes

\* Any spatial requirements must be submitted by ESF

# Technical Documentation References

<http://www.for.gov.bc.ca/his/results/techDocs.htm>

## Technical Documentation

The following documents provide technical information for the RESULTS application and XML submissions.

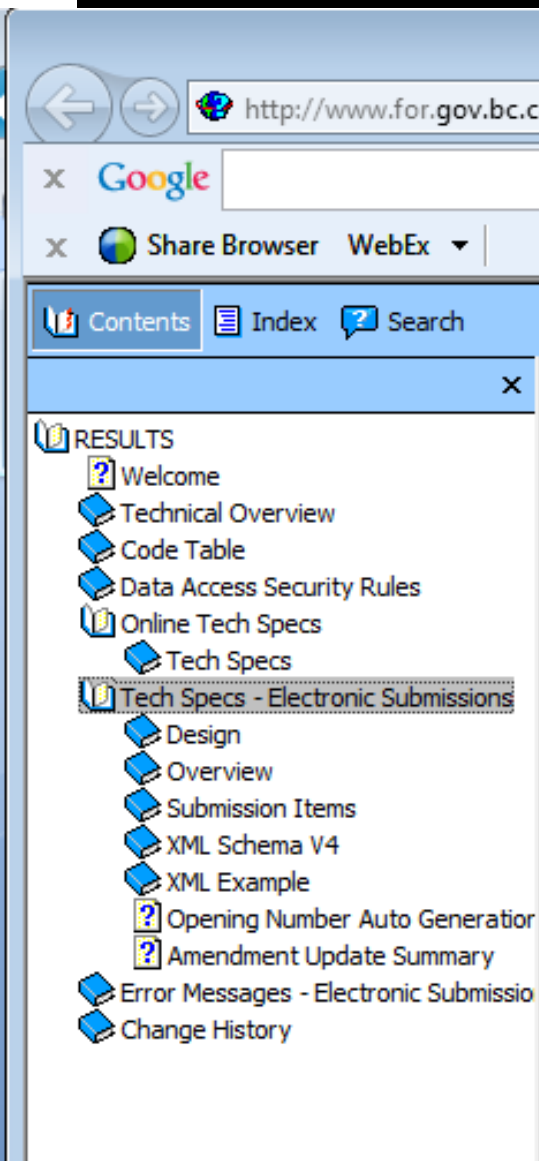
<a href="#">Technical Specifications</a>	<p>Describes the components of a valid RESULTS submission in the order they should appear in the submission document, along with examples.</p> <p>Also describes the technical specifications for each screen within the RESULTS application, including screen layout, business rules, field descriptions and database transactions.</p>
<a href="#">XML Schemas</a>	<p>Complete set of XML schemas required to validate a RESULTS Submission document.</p>
<a href="#">RESULTS Reports</a>	<p>Provides a list of reports available in RESULTS, including a description of each report.</p>
<a href="#">Key Controls during Opening Creation</a> - Feb 21, 2013	<p>This document clarifies RESULTS data interdependencies upon during opening definition (opening creation) via ESF.</p>

# Technical Documentation ESF Schema References

<http://www.for.gov.bc.ca/his/results/techDocs.htm>

Tech Specs has ESF Reference with business rules and field specific edits.

Reference is by schema item.



```
<rst:openingCategoryCode/>  
<rst:openingLocationName/>  
<rst:licenseeID/>  
<rst:actionCode/>  
<rst:tenureProperty>  
  <rst:Tenure>  
</rst:tenureProperty>  
<rst:standardsProperty>  
  <rst:Standards>  
</rst:standardsProperty>  
</rst:OpeningDefinition>  
</rst:definedBy>
```

## Field Information

### openingCategoryCode:

Description: A code used to describe the category for the opening. The opening categories reference the governing applicable legislation and are determined by responsibility, opening origin, tenure type and prescription type. Use the Opening Category table in the Code Tables section.

Data Type: VARCHAR2

Total Length: 7

Data Source: OPENING.OPEN\_CATEGORY\_CODE

Optionality: Conditional

Default Value: Set to 'FTML' if blank.

Edit: N/A

Format: N/A

Validation:

1. Must be a valid code in OPEN\_CATEGORY\_CODE table.
2. If the category is in the OPEN\_CATEGORY\_SITE\_PLAN table then tenure must be submitted with the opening. This includes the forest file id, cutting permit id and cut block id (timber mark can be derived).

Notes:

1. A code used to describe the category for the opening. The opening categories reference the governing applicable legislation and are determined by responsibility, opening origin, tenure type and prescription type.



# Technical Documentation Codelists

<http://www.for.gov.bc.ca/his/results/techDocs.htm>

Contents	Index	Search
Technical Overview		
Code Table		
?	Activity Base	
?	Activity Method	
?	Activity Technique	
?	Activity Base/Objective Comb	
?	Silv Base/Technique/Method C	
?	Silv Base/Technique/Method C	
?	Age Class	
?	Code Tables	
?	Damage Agent	
?	Disturbance	
?	Forest Cover Tree Species	
?	Funding Source	
?	Height Class	
?	Layer	
?	Milestone Type	
?	Opening Category	
?	Reserve Type	
?	Silvicultural Cut Phase	
?	Silvicultural Objective	

FTCF	Forest Tenure - Site Plan under Community Forest
FTFSM	Forest Tenure - Forest Stand Management FPC s.71
FTLEVY	Forest Stand Levy under FSM Fund Reg.
FTML	Forest Tenure - Major Licensee
FTMSL	Forest Tenure Ministry Silviculture Liability
FTPI	Forest Tenure - pilot agreement
FTSBF	Forest Tenure - Small Business Forest Enterprise Program
FTWL	Forest Tenure - Woodlot: Site Plan

# Technical Documentation SU Modifications Cheatsheet

<http://www.for.gov.bc.ca/his/results/techDocs.htm>

- RESULTS
- Welcome
- Technical Overview
- Code Table
- Data Access Security Rules
- Online Tech Specs
- Tech Specs - Electronic Submissions
  - Design
  - Overview
  - Submission Items
  - XML Schema V4
  - XML Example
  - Opening Number Auto Generation
  - Amendment Update Summary

Helps explain setup for ESF portion

“A” and “V” actions with inclusion or omission of SU implies addition or removal of SUs!

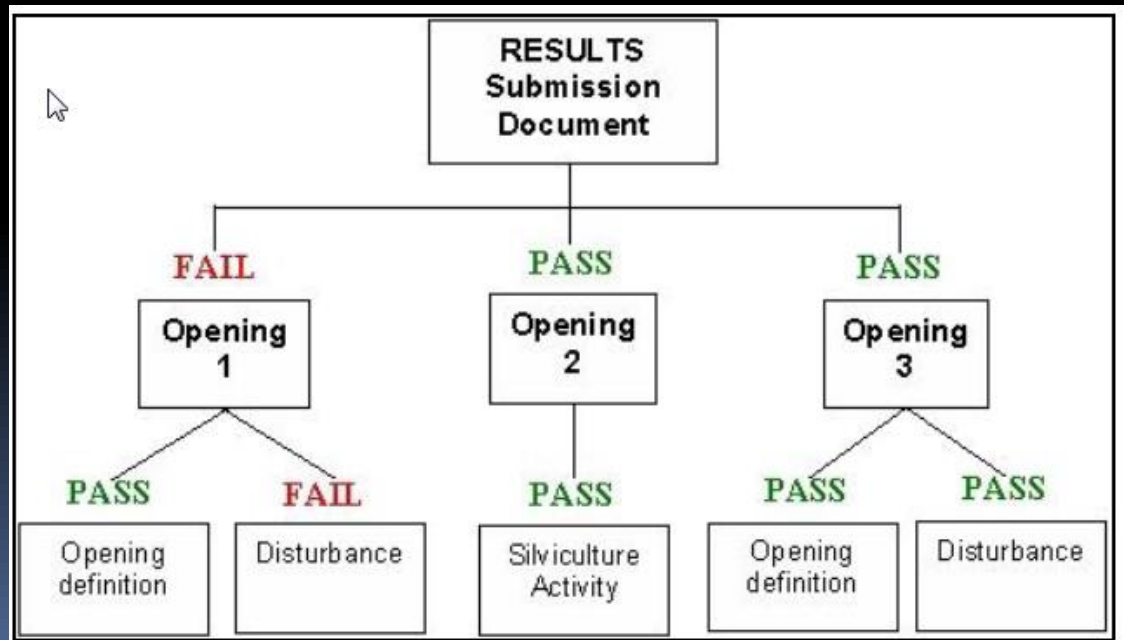
## XML Submission Quick Reference

	XML Action	SU Audit Code	Add SU ?	Delete SU?	Completely replaces all SU's?	Restrictions	Submission Notes
<b>Silv Presc</b>							
Amendment (major)	A	AMD	Yes	Yes	Yes	If a Stocking Standard ID (SSID) is specified for any SU, SSID's must be provided for all SU's	All SU's must be submitted as any existing SU's not submitted will be deleted when the Amendment is approved.
Amendment (minor)	M	MIN	No	No	No	Update NAR, BEC and spatial only, or including SSID for a FRPA 197 rollover.	Only submit SU's you wish to update. Additional information such as layers and species may be submitted but will be ignored.
Correction	U	COR	Yes	Yes	Yes	SSID, Max Soil Disturbance not updateable	All SU's must be submitted as any existing SU's not submitted will be deleted.
Update (schema v3 support)	U	MIN	No	No	No	Update NAR, BEC and spatial only	Only submit SU's you wish to update. For compatibility with schema v3.
<b>Site Plan</b>							
Update (schema v3 support)	U	VAR	No	No	No	SSID not updateable	Processing is identical to Approved Variation (see below). For compatibility with schema v3.
Approved Variation	V	VAR	No	No	No	SSID not updateable	Only submit SU's you wish to update.
Site Plan Amendment	A	SPA	Yes	Yes	Yes	Cannot change SU once SU declared FG.  SSID Cannot be blanked out	All SU's must be submitted as any existing SU's not submitted will be deleted.

# Submission Components - ESF Submission

ESF Submission can be set up by individual opening or can be batched for multiple openings.

If new to RESULTS ESF – suggest do it individually to become familiar with process and requirements



# Submission Components - ESF Submission Metadata

## ESF Submission Metadata

- Identifies the submitter

```
- <esf:submissionMetadata>  
  <esf:emailAddress>mtsoi@shaw.ca</esf:emailAddress>  
  <esf:telephoneNumber>111111111</esf:telephoneNumber>  
</esf:submissionMetadata>
```

## RESULTS Submission Metadata

- Identifies the Licensee
- Indicates Validate or not

```
- <rst:submissionMetadataProperty>  
  - <rst:SubmissionMetadata>  
    <rst:districtCode>DCK</rst:districtCode>  
    <rst:clientCode>00002176</rst:clientCode>  
    <rst:clientLocationCode>00</rst:clientLocationCode>  
    <rst:licenseeContact>MC</rst:licenseeContact>  
    <rst:telephoneNumber>111111111</rst:telephoneNumber>  
    <rst:emailAddress>mtsoi@shaw.ca</rst:emailAddress>  
    <rst:batchReferenceDate>2012-01-03</rst:batchReferenceDate>  
    <rst:validationIndicator>>false</rst:validationIndicator>  
  </rst:SubmissionMetadata>
```

Note this info is automatically provided via BCeID for online entries

# Submission Components - Opening Definition

```
<rst: openingNumberKey>
  <rst: mapsheetGrid>92</rst: mapsheetGrid>
  <rst: mapsheetLetter>P</rst: mapsheetLetter>
  <rst: mapsheetSquare>066</rst: mapsheetSquare>
  <rst: mapsheetQuad>0</rst: mapsheetQuad>
  <rst: mapsheetSubQuad>0</rst: mapsheetSubQuad>
  <rst: openingNumber>1234</rst: openingNumber>
</rst: openingNumberKey>
<rst: timberMarkKey>
  <rst: timberMark>EF7114</rst: timberMark>
  <rst: cutblock>18</rst: cutblock>
</rst: timberMarkKey>
<rst: tenureKey>
  <rst: licenceNumber>A12345</rst: licenceNumber>
  <rst: cuttingPermitID>114</rst: cuttingPermitID>
  <rst: cutblock>18</rst: cutblock>
</rst: tenureKey>
<rst: openingID>556421</rst: openingID>
```

- Opening Key
    - Identifies the opening to which the submission belongs
    - Can be any of
      - Opening Number
      - TimberMark/Blk\*
      - Licence/CP/Blk\*
      - Opening ID
- \*These keys link to FTA and bring tenure data forward to RESULTS. Must use one of these keys for the first submission.

# Submission Components - Opening Definition

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- Opening Definition

- Used to:

- Create new openings
    - Update existing openings
    - Initiate SU modification (correction, minor, major amendment, approved variation, site plan amendment)

- Identifies:

- Site Plan information including
      - Previous stand information
      - Standard regime (standard id)
      - Governing tenure
      - Spatial location opening/SUs

Key Links:

- [FTA for Tenure Data](#)
- [Data shipped to DataBC](#)

# Submission Components - Opening Definition

## Opening Definition – 3 components

- Opening data
- Tenure data
- SU data

### Action Codes

- I – Insert (New openings)
- U – Update
- A – Amendments
- M – Minor Amendments
- V – Approved Variations
- O – Opening Amalgamation

```
- <rst:OpeningDefinition>
+ <rst:extentOf>
  <rst:previousStandType>MAT</rst:previousStandType>
  <rst:previousSpecies1Code>FDI</rst:previousSpecies1Code>
  <rst:previousSpecies2Code>PLI</rst:previousSpecies2Code>
  <rst:previousAgeClassCode>7</rst:previousAgeClassCode>
  <rst:previousHeightClassCode>4</rst:previousHeightClassCode>
  <rst:previousStockClassCode>1</rst:previousStockClassCode>
  <rst:previousSiteIndex>15</rst:previousSiteIndex>
  <rst:previousSiteIndexSource>H</rst:previousSiteIndexSource>
  <rst:openingGrossArea>25</rst:openingGrossArea>
  <rst:maximumAllowablePermanentAccessPercentage>7</rst:maximumAllowablePermanentAccessPercentage>
  <rst:sitePlanExemption>N</rst:sitePlanExemption>
  <rst:openingCategoryCode>FTML</rst:openingCategoryCode>
  <rst:openingLocationName>Gold Creek</rst:openingLocationName>
  <rst:actionCode>I</rst:actionCode>
+ <rst:tenureProperty>
+ <rst:standardsProperty>
</rst:OpeningDefinition>
```

# SU Requirement & Role of Site Plan Exempt Ind

<http://www.for.gov.bc.ca/his/results/Key%20Controls%20during%20Opening%20Creation-Feb%2021%202013.pdf>

All New Openings via ESF must have at least ONE Standards Unit in the Opening Definition

Rst: sitePlanExempt is an indicator used by RESULTS to determine if Standards Unit is:

- a silviculture prescription “Y” – full stocking standards provided ; OR
- a site plan “N” – an approved standards regime ID authorized by submitter is provided.

```
<!-- *****OPENING DEFINITION***** -->
<!--*****Inserting valid opening *****-->
<!-- ***** -->
<rst:previousStandType>IMM</rst:previousStandType>
<rst:previousSpecies1Code>FDC</rst:previousSpecies1Code>
<rst:previousSpecies2Code>PLC</rst:previousSpecies2Code>
<rst:previousAgeClassCode>1</rst:previousAgeClassCode>
<rst:previousHeightClassCode>1</rst:previousHeightClassCode>
<rst:previousStockClassCode>R</rst:previousStockClassCode>
<rst:previousSiteIndex>1</rst:previousSiteIndex>
<rst:previousSiteIndexSource>A</rst:previousSiteIndexSource>
<!-- ***** Opening Gross Area is mandatory***** -->
<rst:openingGrossArea>32.5</rst:openingGrossArea>
<rst:maximumAllowablePermanentAccessPercentage>4.1</rst:maximumAllowablePermanentAccessPercentage>
<!-- *****If Y then no standards are required***** -->
<!-- *****If N then standards MAY be required***** -->
<rst:sitePlanExemption>N</rst:sitePlanExemption>
<!-- ***** Important tag. Tied to tenure. If blank or missing Default is FTML ***** -->
<!-- ***** It must be a valid code within the OPEN_CATEGORY_CODE table ***** -->
<!-- ***** If value not in OPEN_CATEGORY_SITE_PLAN_CODE ***** -->
<!-- ***** table then create record in CUT_BLOCK_OPEN_ADMIN ***** -->
<rst:openingCategoryCode>FTML</rst:openingCategoryCode>
<rst:openingLocationName>black bear creek</rst:openingLocationName>
<!-- *****Not mandatory but if supplied must be unique for that client ***** -->
<rst:licenseeID>RES01</rst:licenseeID>
<rst:actionCode>I</rst:actionCode>
<!-- ***** -->
```



# Submission Components - Opening Definition

## Opening Definition – 3 components

- **Opening data**
- **Tenure data**
- **SU data**

```
- <rst:Tenure>  
  - <rst:tenureKey>  
    <rst:licenceNumber>A12345</rst:licenceNumber>  
    <rst:cuttingPermitID>114</rst:cuttingPermitID>  
    <rst:cutblock>18</rst:cutblock>  
  </rst:tenureKey>  
  <rst:primeLicenceIndicator>true</rst:primeLicenceIndicator>  
</rst:Tenure>  
</rst:tenureProperty>
```

## RESULTS allow multi-cutblock openings.

Prime Licence Indicator is set to true if only one cutblock is assigned to one opening.

If there is a requirement to have more than one cutblock associated with an opening, one must be true, all other cutblocks must be False (non-prime).

# Submission Components - Opening Definition

## Opening Definition – 3 components

- Opening data
- Tenure data
- **SU data**

```
- <rst: standardsProperty>
- <rst: Standards>
+ <rst: extentOf>
  <rst: standardsUnitID>1</rst: standardsUnitID>
  <rst: netArea>20</rst: netArea>
  <rst: bgcZone>IDF</rst: bgcZone>
  <rst: bgcSubzone>dk</rst: bgcSubzone>
  <rst: bgcVariant>2</rst: bgcVariant>
  <rst: bgcPhase>b</rst: bgcPhase>
  <rst: bgcSiteSeries>01</rst: bgcSiteSeries>
  <rst: maximumAllowableSoilDisturbancePercentage>5</rst:
  <rst: standardsRegimeID>86642</rst: standardsRegimeID>
</rst: Standards>
</rst: standardsProperty>
```

Spatial data for Standard Units is required

Standards Regime must be approved for use for submitting client and org unit unless Ministry default.

Key Links:

- FTA validation
- DataBC
- Derives FSP ID if Standard Regime ID exists in FSPTS

# Submission Components - Opening Definition

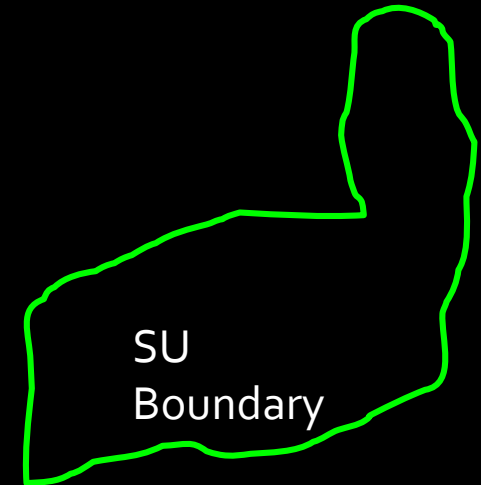
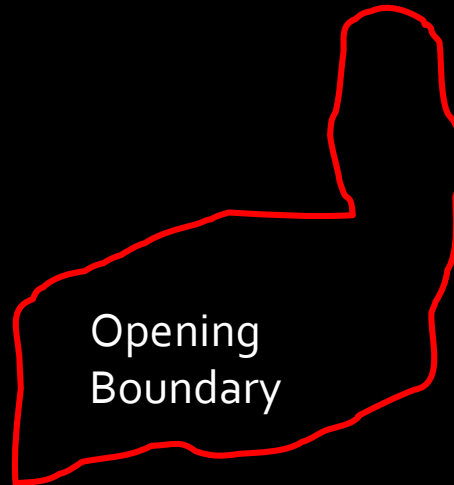
## Opening Definition – 3 components

- Opening data
- Tenure data
- **SU data**
  - **Spatial Data**

```
<rst:extentOf>  
- <gml:Polygon srsName="EPSG:42102">  
  - <gml:outerBoundaryIs>  
    - <gml:LinearRing>  
      <gml:coordinates>2.436928702010969,3.7989031078610607  
        3.369287020109689,3.872029250457039 3.84460694698354  
        4.393053016453382,3.031078610603291 4.42961608775137  
        3.9360146252285193,2.0621572212065815 3.460694698354  
        2.692870201096892,1.8062157221206585 2.4552102376599  
        2.089579524680073,2.1170018281535654 1.8519195612431  
        1.7970749542961606,2.848263254113346 1.7970749542961  
        1.7970749542961606,3.378427787934187 1.9433272394881  
        2.0347349177330893,3.7257769652650827  
        2.436928702010969,3.7989031078610607</gml:coordinates>  
      </gml:LinearRing>  
    </gml:outerBoundaryIs>  
  </gml:Polygon>  
</rst:extentOf>
```

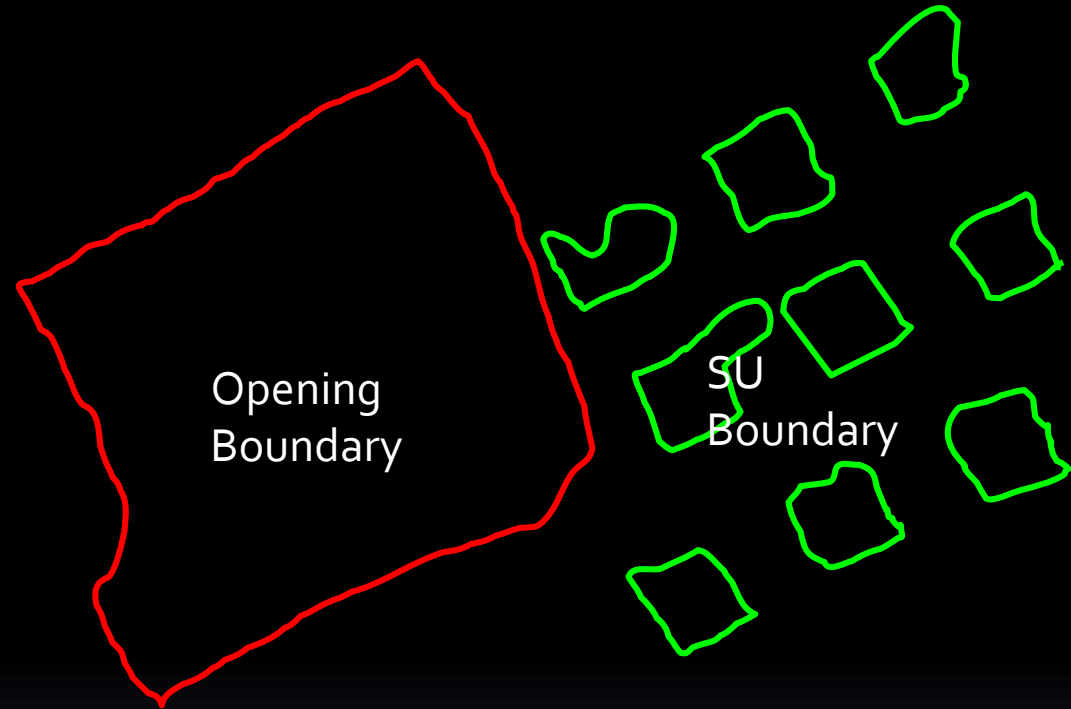
Spatial data for Standard Units is required

# Submission Components - Opening Definition



Example spatial information for an Opening Definition

# Submission Components - Opening Definition



Example spatial information for an Opening Definition

# Submission Components - Disturbance Submission

- Used to:
  - Create new Disturbances (“I” - Insert)
  - Update existing Disturbances (“U” - Update)
- Identifies:
  - Disturbance code
  - Silviculture System
  - Harvest Start and Complete Dates
  - Area disturbed
  - Disturbance Activity Map is optional
- Key Links
  - Updates FTA for Harvest Area, Dates, and cutblock status,
  - DataBC
  - Used as trigger for VRIMS to indicate depletion

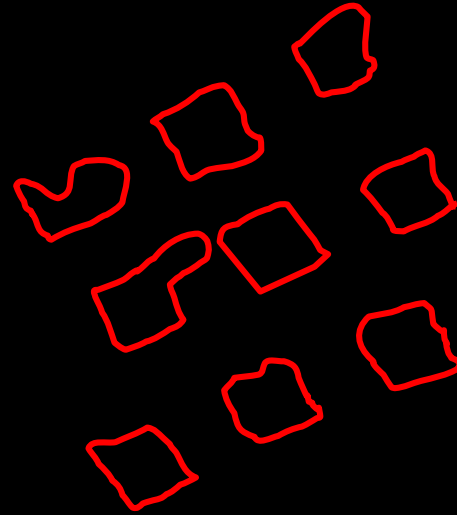


# Submission Components - Disturbance Submission

```
- <rst:Disturbance>
+ <rst:extentOf>
- <rst:tenureKey>
  <rst:licenceNumber>A12345</rst:licenceNumber>
  <rst:cuttingPermitID>114</rst:cuttingPermitID>
  <rst:cutblock>18</rst:cutblock>
</rst:tenureKey>
<rst:disturbanceCode>L</rst:disturbanceCode>
<rst:silviculturalSystem>SEEDT</rst:silviculturalSystem>
<rst:silviculturalVariant>GRP</rst:silviculturalVariant>
<rst:silviculturalCutPhase>REMOV</rst:silviculturalCutPhase>
<rst:disturbanceStartDate>2006-06-02</rst:disturbanceStartDate>
<rst:disturbanceCompleteDate>2006-06-22</rst:disturbanceCompleteDate>
<rst:grossArea>12.4</rst:grossArea>
<rst:harvestCompleteOnCutBlock>true</rst:harvestCompleteOnCutBlock>
<rst:licenseeID>Logging CP 114 CB 18</rst:licenseeID>
<rst:actionCode>I</rst:actionCode>
</rst:Disturbance>
```

Multiple Disturbance Submissions per opening are required where there is more than one tenure governing an opening, and/or there are different silviculture systems within the same opening

# Submission Components - Disturbance Submission



Gross area – NPNAT - Undisturbed Reserves = Disturbance Area

Newly created roads are included in the disturbance area



# Submission Components - Disturbance Submission



Gross area – NPNAT - Undisturbed Reserves = Disturbance Area  
Newly created roads are included in the disturbance area

# Submission Components

## - Silviculture Activity Submission

- Used to:
    - Create new Activities (“I”-Insert)
    - Update existing Activities (“U”-Update)
  
  - Identifies:
    - Silviculture Treatments
    - Treatment Date
    - Area treated
    - Spatial Location\*
  
  - Key Links
    - DataBC
    - SPAR (species and seedlot validation)
- \* Silviculture Activity Map is optional (unless specified in RISS)



# Submission Components

## - Silviculture Activity Submission

```
- <rst: SilviculturalActivity>
+ <rst: extentOf>
  <rst: activityBase>BR</rst: activityBase>
  <rst: activityTechnique>MA</rst: activityTechnique>
  <rst: activityMethod>BRUSH</rst: activityMethod>
  <rst: objective1>CGE</rst: objective1>
  <rst: fundingSource>IA</rst: fundingSource>
  <rst: actualDateIndicator>true</rst: actualDateIndicator>
  <rst: activityDate>2006-08-24</rst: activityDate>
  <rst: netAreaTreated>10</rst: netAreaTreated>
  <rst: actionCode>I</rst: actionCode>
</rst: SilviculturalActivity>
```

### ■ Silviculture Activities

- Site prep
- Planting
- Brushing
- Juvenile spacing
- Fertilization
- Pruning

actDateIndicator

True – completed activity

False – planned activity

# Submission Components

## - Silviculture Activity Submission

### ■ Planting Activity

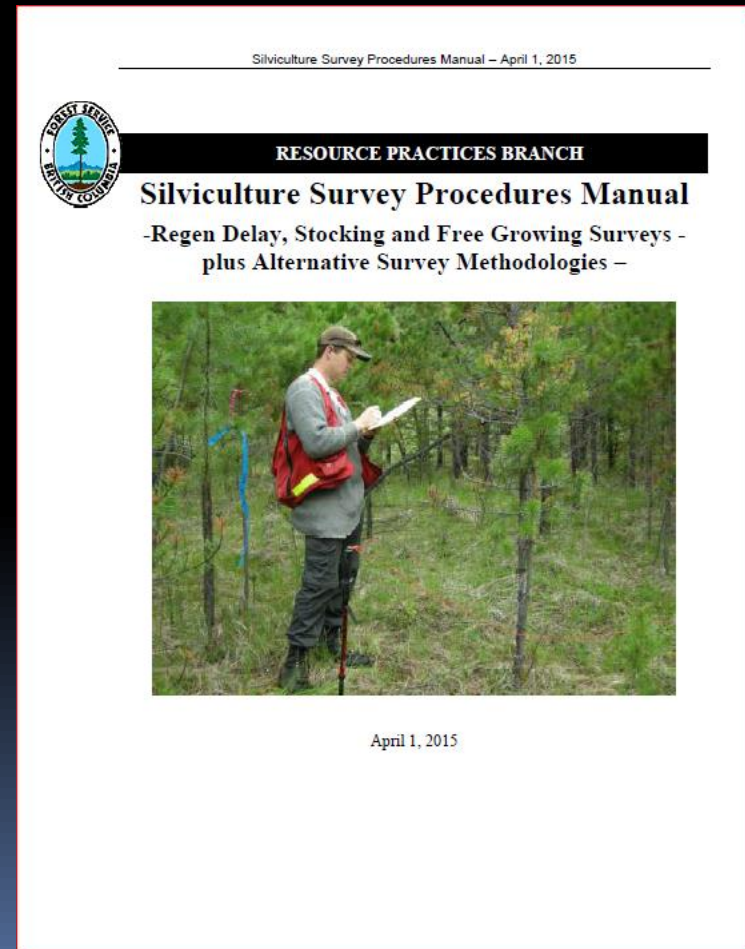
- Requires additional information associated with the planted trees
- Seedlot Number is validated against SPAR to confirm Seedlot number exists and species matches seedlot number

```
- <rst: SilviculturalActivity>
+ <rst: extentOf>
  <rst: activityBase>PL</rst: activityBase>
  <rst: activityTechnique>PL</rst: activityTechnique>
  <rst: activityMethod>CTAIN</rst: activityMethod>
  <rst: objective1>CE</rst: objective1>
  <rst: fundingSource>IA</rst: fundingSource>
  <rst: fundingProject>06SprPlant</rst: fundingProject>
  <rst: actualDateIndicator>true</rst: actualDateIndicat
  <rst: activityDate>2006-05-17</rst: activityDate>
  <rst: netAreaTreated>12</rst: netAreaTreated>
  <rst: licenseeID>2006 Planting</rst: licenseeID>
  <rst: actionCode>I</rst: actionCode>
- <rst: plantingStockProperty>
  - <rst: PlantingStock>
    <rst: seedlot-Veglot>24345</rst: seedlot-Veglot>
    <rst: species>FDI</rst: species>
    <rst: numberPlanted>18200</rst: numberPlanted>
    <rst: excessOfTransferLimit>200</rst: excessOfTra
  </rst: PlantingStock>
  </rst: plantingStockProperty>
</rst: SilviculturalActivity>
```

# Submission Components - Forest Cover Submission

RESULTS Forest Cover Submission is summarized information from  
Silviculture Surveys

[https://www.for.gov.bc.ca/hfp/silviculture/Silviculture\\_Surveys.html](https://www.for.gov.bc.ca/hfp/silviculture/Silviculture_Surveys.html)



# Submission Components - Forest Cover Submission

## RESULTS Information Submission Specification

### Changes in Inventory Component- Basal Area reporting

[https://www.for.gov.bc.ca/his/results/RISS\\_Is\\_4\\_ed\\_May%202015.pdf](https://www.for.gov.bc.ca/his/results/RISS_Is_4_ed_May%202015.pdf)



Ministry of Forests, Lands and Natural Resource Operations

#### RESULTS INFORMATION SUBMISSION SPECIFICATIONS

#### Form and Manner of Reporting

(Licensee Submissions)

4<sup>th</sup> Edition

May, 2015

### 5.7.2.2 Inventory component

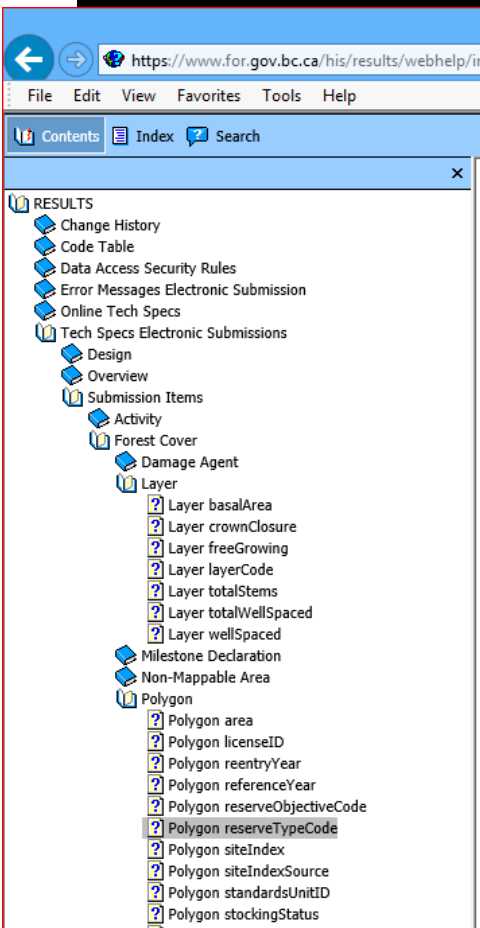
Table 11 Forest cover "inventory component" field specifications.

Field	Required	Description and Conditions
Layer	conditional	Code that characterizes a distinct canopy cohort within a polygon, containing a common forest cover structure with stems of similar ages and heights. Inventory component layers are: 1 (Mature), 2 (Pole), 3 (Sapling), and 4 (Regeneration). I (non-layered, even-aged stand). Required if tree species are entered, and if more than one canopy layer apply to the polygon. See Appendix A to locate Layer Code list.
Crown Closure	conditional	The percentage of ground area covered by the vertically projected crowns of the tree cover for each inventory component tree layer within the polygon. Required if tree species are entered. See FS 660 Card. <a href="http://www.for.gov.bc.ca/isb/forms/lib/FS660.PDF">http://www.for.gov.bc.ca/isb/forms/lib/FS660.PDF</a>
Total Stems	conditional	Total number of stems per hectare within the forest cover polygon. Required if tree species are entered.
Basal Area	conditional	Average cross-sectional residual basal area (m <sup>2</sup> ) per hectare of all stems ≥12.5 cm diameter at breast height (dbh; 1.3 m). Required for openings where basal area is > 5m <sup>2</sup> or is part of a stocking standard. Basal area for Layer 2, 3, or 4 is blank.

# Submission Components - Forest Cover Submission

RESULTS forest cover data is used to update VRIMS.

Forest Cover Submission has the most edit checks which are detailed out in RISS and ESF Technical Specifications.



## Field Information

### reserveTypeCode:

Description: Code that identifies the spatial pattern of a reserve or retention area associated with a silvicultural system. Required if a reserve or retention is associated with the forest cover polygon.

Data Type: VARCHAR2

Total Length: 1

Data Source: FOREST\_COVER.SILV\_RESERVE\_CODE

Optionality: Conditional

Default Value: N/A

Edit: N/A

Format: N/A

### Validation:

1. Must be a valid code in local table SILV\_RESERVE\_CODE
2. If SILV\_RESERVE\_CODE in ('G','D') and STOCKING\_STATUS\_CODE in ('MAT', 'IMM', 'NSR'), only required fields are:
  - SILV\_RESERVE\_CODE
  - SILV\_POLYGON\_NO
  - REFERENCE\_YEAR
  - STOCKING\_STATUS\_CODE
  - STOCKING\_TYPE\_CODE
  - SILV\_POLYGON\_AREA

### Notes:

1. A code for the type of reserve.
2. Validation applies to xml submission only.

# Submission Components - Forest Cover Submission

## Forest Cover – 4 main data components

- **Polygon Data**
- **Layer Data**
  - **Tree Species**
  - **Damage Agent**
- **NonMappable Component**
- **Spatial**

```
</gml:MultiPolygon>
</rst:extentOf>
<rst:standardsUnitID>A</rst:standardsUnitID>
<rst:licenseeID>131960STA</rst:licenseeID>
<rst:area>7.5</rst:area>
<rst:referenceYear>2011</rst:referenceYear>
<rst:reserveTypeCode>D</rst:reserveTypeCode>
<rst:reserveObjectiveCode>WTR</rst:reserveObjectiveCode>
<rst:siteIndex>18</rst:siteIndex>
<rst:siteIndexSource>E</rst:siteIndexSource>
<rst:stockingStatus>IMM</rst:stockingStatus>
<rst:stockingType>NAT</rst:stockingType>
```

Forest Cover Submission can occur only when a Disturbance Report exists in the ESF submission or if it exists for the opening.

\*Spatial data for forest cover polygons is required

If submitting for reserve, important to understand Treed Retention Reporting requirements:

[http://www.for.gov.bc.ca/his/results/Forest\\_Cover\\_Retention\\_Submissions.pdf](http://www.for.gov.bc.ca/his/results/Forest_Cover_Retention_Submissions.pdf)



# Submission Components - Forest Cover Submission

## Forest Cover – 4 main data components

- Polygon Data
- Layer Data
  - Tree Species
  - Damage Agent
- NonMappable Component
- Spatial

Forest Cover is a complete replacement.

Forest Cover Submission must be submitted for the entire opening even if only a partial of the opening has underwent forest cover change.

Partial forest cover is not allowed and will create spatial data gaps!

```
- <rst:Layer>
  <rst:layerCode>I</rst:layerCode>
  <rst:crownClosure>26</rst:crownClosure>
  <rst:totalStems>2334</rst:totalStems>
  <rst:basalArea>1</rst:basalArea>
- <rst:treeSpeciesList>
  - <rst:TreeSpecies>
    <rst:speciesCode>PLI</rst:speciesCode>
    <rst:speciesPercent>60</rst:speciesPercent>
    <rst:averageAge>7</rst:averageAge>
    <rst:averageHeight>0.8</rst:averageHeight>
  </rst:TreeSpecies>
  - <rst:TreeSpecies>
    <rst:speciesCode>FDI</rst:speciesCode>
    <rst:speciesPercent>40</rst:speciesPercent>
    <rst:averageAge>7</rst:averageAge>
    <rst:averageHeight>0.7</rst:averageHeight>
  </rst:TreeSpecies>
</rst:treeSpeciesList>
- <rst:damageAgentList>
  - <rst:DamageAgent>
    <rst:damageAgentCode>IWW</rst:damageAgentCode>
    <rst:incidencePercent>6</rst:incidencePercent>
    <rst:incidenceArea>5</rst:incidenceArea>
  </rst:DamageAgent>
</rst:damageAgentList>
</rst:Layer>
```

# Submission Components - Forest Cover Submission

## Forest Cover – 4 main data components

- Polygon Data

- Layer Data

  - Tree Species

  - Damage Agent

- NonMappable Component

- Spatial

```
- <rst:nonMappableComponentList>
  - <rst:NonMappableComponent>
    <rst:nmcId>DA</rst:nmcId>
    <rst:stockingStatus>NP</rst:stockingStatus>
    <rst:stockingType>UNN</rst:stockingType>
    <rst:nmcArea>0.2</rst:nmcArea>
  </rst:NonMappableComponent>
```

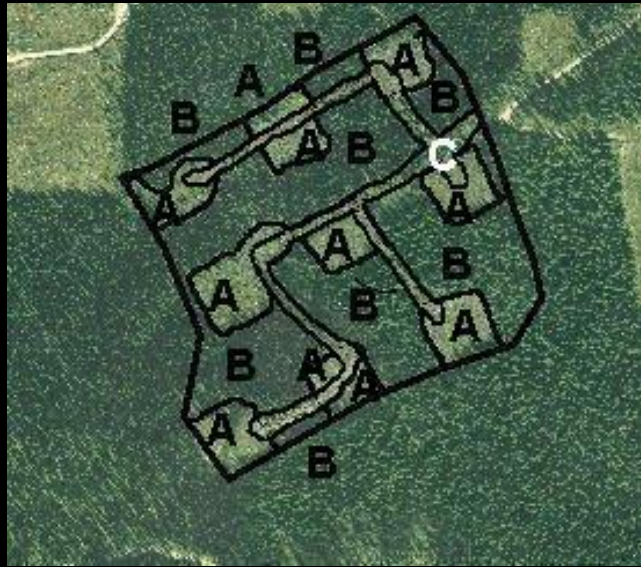
```
<rst:extentOf>
- <gml:Polygon srsName="EPSG:42102">
  - <gml:outerBoundaryIs>
    - <gml:LinearRing>
      <gml:coordinates>2.436928702010969,3.7989031078610607
      3.369287020109689,3.872029250457039 3.84460694698354
      4.393053016453382,3.031078610603291 4.42961608775137
      3.9360146252285193,2.0621572212065815 3.460694698354
      2.692870201096892,1.8062157221206585 2.4552102376599
      2.089579524680073,2.1170018281535654 1.8519195612431
      1.7970749542961606,2.848263254113346 1.7970749542961
      1.7970749542961606,3.378427787934187 1.9433272394881
      2.0347349177330893,3.7257769652650827
      2.436928702010969,3.7989031078610607</gml:coordinates>
    </gml:LinearRing>
  </gml:outerBoundaryIs>
</gml:Polygon>
</rst:extentOf>
```

Forest Cover is a complete replacement.

Forest Cover Submission must be submitted for the entire opening even if only a partial of the opening has underwent forest cover change.

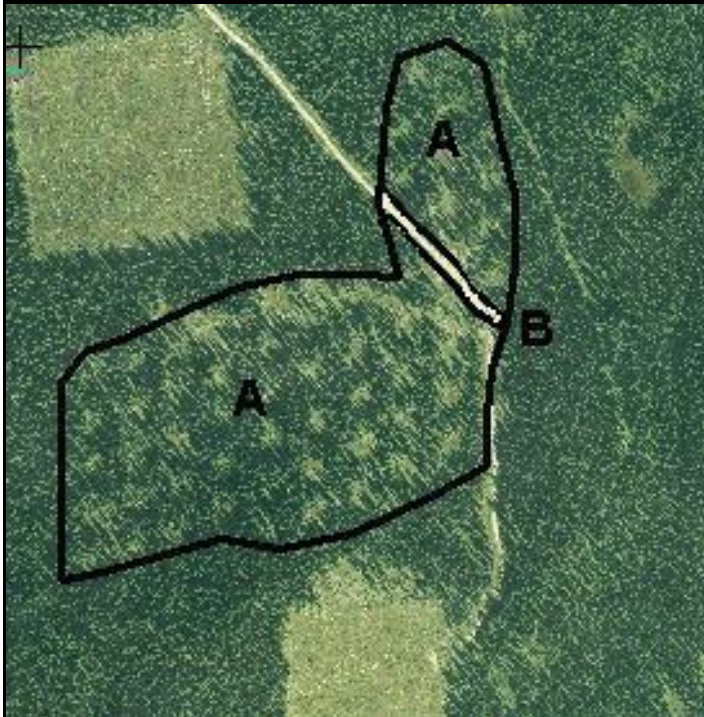
Partial forest cover is not allowed and will create spatial data gaps!

# Submission Components - Forest Cover Submission



Polygon	Description	Standards Unit	Area (ha)
A	Cutover	1	10.0
B	Mature		35.0
C	NP UNN		5.0

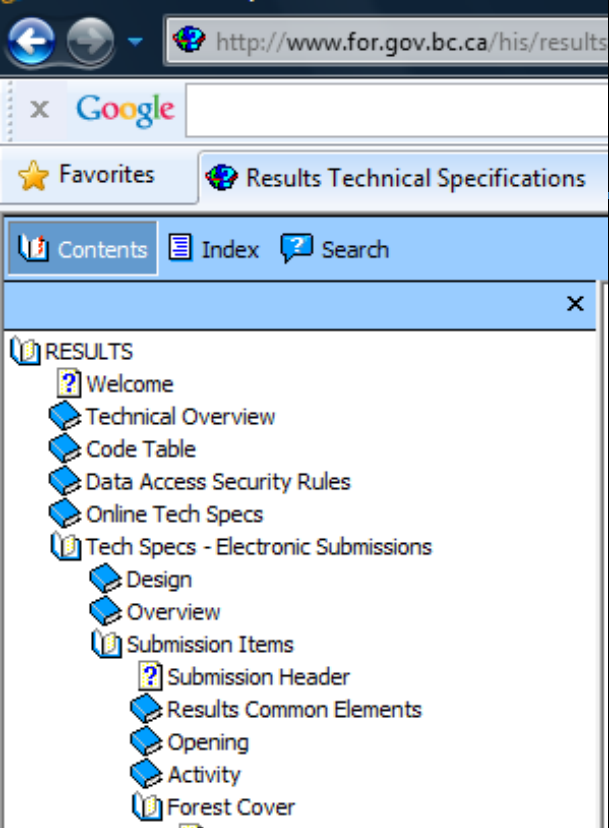
# Submission Components - Forest Cover Submission



Polygon	Description	Standards Unit	Area (ha)
A	Variable Retention	1	20.0
B	NP UNN		5.0



Polygon	Description	Standards Unit	Area (ha)
A	Clearcut	1	30.0
B	Seedtree	2	20.0
C	Reserves		10.0
D	NP UNN		3.0



# Submission Components - Forest Cover Submission

- Forest Cover contains many validation rules and inter-data dependencies to ensure data completeness where expected.
- Mandatory requirements are explained in the RISS-Is and also in the ESF technical specifications.

## standardsUnitID:

**Description:** Basic Silviculture objective stated in quantifiable terms for a specific area. These are the acceptable standards for reforestation and soil conservation. Also known as SU - Standards Unit.

**Data Type:** VARCHAR2

**Total Length:** 4

**Data Source:** STOCKING\_STANDARD\_UNIT.STANDARDS\_UNIT\_ID

**Optionality:** SU is mandatory if IMM or NSR status

**Default Value:** N/A

**Edit:** There must be a valid SU for the opening

**Format:** N/A

**Validation:** None

**Notes:**

1. A unique identifier within the opening that identifies the standard unit. RESULTS requires at least one standards unit per opening.

- [-] Polygon siteIndex
- [?] Polygon siteIndexSource
- [?] Polygon standardsUnitID
- [?] Polygon stockingStatus
- [?] Polygon stockingType
- [?] Polygon treeCoverPattern

# Submission Components - Milestone

- Milestone Declaration
  - StandardsUnit ID
  - Milestone Type
  - Declaration Date
  - Comment (optional) but useful for reference of RFP performing declaration, s.97.1, s.108 relief of obligation, or any useful notes pertaining to declaration
- Note that free growing forest cover must be submitted prior to free growing declaration (not system's enforced but required by legislation)

```
- <rst:openingItem>
  - <rst:MilestoneDeclaration>
    <rst:standardsUnitID>1</rst:standardsUnitID>
    <rst:milestoneType>FG</rst:milestoneType>
    <rst:declarationDate>2013-09-16</rst:declarationDate>
    <rst:comment>Declaration by RPF 1234</rst:comment>
  </rst:MilestoneDeclaration>
</rst:openingItem>
```

# Attachments (Online)

- RESULTS online feature has ability for attachments.
- Licensees have opportunity to include any attachments to an Opening that is helpful to explain SU Modification Rationales or milestone declarations.

The screenshot shows a web browser window with the URL <https://testapps.nrs.gov.bc.ca/ext/results/>. The page title is "RESULTS" and it features a navigation menu with tabs for Search, Inbox, Openings, Projects, Data Submission, Admin, Event Tracking, and Reports. A secondary menu below includes links for Opening Inquiry, Multi-Tenure, Stocking Standards, Activities, Projects, Forest Cover, Milestones, Land Status, and Attachments. The Attachments link is highlighted with a red box. Below the navigation, a message states "No records found." The main form area contains fields for Org Unit (DCC - Cariboo-Chilcotin Natural Res), Status (APP - Approved), Client (YKW 00), Name (YUN KA WHUTEN HOLDINGS LTD.), Opening (93C 063 0.0 23), Opening Id (63012), Licensee Opening Id, Licence No (A47409), CP (66), Cut Block (508), and Timber Mark (FM4066). It also displays area statistics: Exhibit A Area (25.4 ha), Disturbance Area (25.4 ha), NAR (20.0 ha), Forest Cover Area (25.4 ha), and Opening Gross Area (25.4 ha). Action buttons include Go, Clear, SP Map, Map View, History, and FTA. The section is titled "RESULTS401 - Attachments" and includes a Back button. Below is a table with columns for Description, File Name, and File Size, and a file upload area with a Browse... button and Save/Cancel buttons. A final Back button is at the bottom left, and a footer contains links for Feedback, Disclaimer, Privacy, and Copyright.

Application Home

## RESULTS

Search | Inbox | Openings | Projects | Data Submission | Admin | Event Tracking | Reports

Opening Inquiry | Multi-Tenure | Stocking Standards | Activities | Projects | Forest Cover | Milestones | Land Status | **Attachments**

• No records found.

Org Unit: DCC - Cariboo-Chilcotin Natural Res Status: APP - Approved

Client: YKW 00 Name: YUN KA WHUTEN HOLDINGS LTD.

Opening: 93C 063 0.0 23 Opening Id: 63012 Licensee Opening Id:

Licence No: A47409 CP: 66 Cut Block: 508 Timber Mark: FM4066

Exhibit A Area (ha): 25.4 Disturbance Area (ha): 25.4 NAR (ha): 20.0 Forest Cover Area (ha): 25.4 Opening Gross Area (ha): 25.4

Go Clear SP Map Map View History FTA

### RESULTS401 - Attachments

Back

Description	File Name	File Size
<input type="text"/>	<input type="text"/> Browse...	

Save Cancel

Back

•Feedback •Disclaimer •Privacy •Copyright

# Mandatory legal requirement vs. Edit Checks

---

RESULTS Information Submission Specification document provides information on mandatory data requirements.

RESULTS will provide some rudimentary system's checks for data quality and data dependencies but cannot check for all legal requirements due to complexity and requirement for interpretation.

It is responsibility of the submitter to ensure that the data submitted is consistent with legal requirements.

Any system's edit checks are described in the RESULTS Technical Specifications webpage.



# Submission Process

Application Home

## RESULTS

Search	Inbox	Openings	Projects	<b>Data Submission</b>	Admin	Event
--------	-------	----------	----------	------------------------	-------	-------

RESULTS501 - Standards Search

- XML Submission
- Annual Silviculture Accomplishments
- Opening Amalgamation
- FRPA 108 Application

Vendor products often have integrated ESF submission to RESULTS ESF. This step may not be required

BRITISH COLUMBIA

By Submission Id By User Reference

Search [input] Go Advanced Search Main Index Contact Us Help

B.C. HOME

Ministry of Forests and Range

Ministry of Agriculture and Lands

Electronic Submissions

- Welcome
- Upload Submission
- Search
- View Types

Related Links

- Natural Resource Sector Service Desk 1-866-952-6801/250-952-6801
- ESF Information Web Site

B.C. Home > Forests and Range > Electronic Submissions > Welcome

### Electronic Submission - Welcome

Organization: BC Government  
User: Mei-Ching Tsoi

#### Welcome to the MoFR Electronic Submission Site

From this site you will be able to "Make a New Submission", "Search for information about your submissions" or "View and download files to support Submission Types".

- Upload Submission:** Upload a new document for processing by the government.
- Search:** Search for a submission you have already made, and check the status of it. Some submissions may take some time to be accepted. You may also be notified via email.
- View Types:** View the types of submission here you can download the submission.

### Electronic Submission - Upload Submission

Organization: BC Government  
User: Mei-Ching Tsoi

#### Upload Submission

\* Choose Submission Type: **Opening Submission**

User Reference: UpdateCarbonSUs

\* Browse or Enter Submission File: C:\Users\User\Mei-Ching\Documents\MOF Working File Browse...

\* Mandatory Fields.

Upload Submission

Must specify Submission Type: Opening Submission

# Submission Process

## Electronic Submission - Confirm Submission

**Organization:** BC Government

**User:** Mei-Ching Tsoi

### Submission Summary: **Submission Validated**

**File Submission Type:** Opening Submission  
**File Name:** CarbonUpdateSU.xml  
**File Size:** 98KB  
**Submission Timestamp:** 2013-09-19 10:20:07  
**User Reference:** UpdateCarbonSUs

We have received the following in your submission:

Submission Validated

Which email address would you like the Submission Status Messages to be sent to?

mtsoi@shaw.ca ▼

There can be no notification if the email is undeliverable. Please ensure the address is correct and come back to this site if notification has not been received within a day.

What would you like to do now?

**Finalize Submission**

Finalize the submission for processing by the ministry.

View Map

View a map of the submission using the ESF Map Visualization Tools.

Cancel Submission

Cancel the submission process and do not send to the ministry.

## Electronic Submission - Complete Submission

**Organization:** BC Government

**User:** Mei-Ching Tsoi

### Submission Successfully Queued

**Submission ID:** 52064  
**File Submission Type:** Opening Submission  
**File Name:** CarbonUpdateSU.xml  
**File Size:** 98KB  
**Submission Timestamp:** 2013-09-19 10:20:07  
**User Reference:** UpdateCarbonSUs

The file has been successfully submitted and queued for processing. You may receive courtesy e-mails throughout the approval process.

Please periodically check the status of your submission by visiting the [Search Page](#).

# Submission Process

Must specify Submission Type: Opening Submission

Ministry of Forests and Range  
Ministry of Agriculture and Lands

### Electronic Submissions

- Welcome
- Upload Submission
- Search
- View Types

**Electronic Submission - Search**  
Organization: BC Government  
User: Mei-Ching Tsoi

#### Search Submissions

Submission Type: **Opening Submission** Status: All

Submission Id:

Submitter: Personal

From Start Date:  To End Date:

## Electronic Submission - Search

Organization: BC Government  
User: Mei-Ching Tsoi

### Search Submissions

Submission Type: Opening Submission Status: All

Submission Id:

Submitter: Personal

From Start Date:  To End Date:

<u><a href="#">Id</a></u>	<u>Submission Type</u>	<u>Submitted By</u>	<u>User Reference</u>	<u>Status</u>	<u>Submission Date</u>
<u><a href="#">52064</a></u>	Opening Submission	IDIR\MTSOI	UpdateCarbonSUS	Accepted	2013-09-19 10:20:51

## Electronic Submission - Submission Details

Organization: BC Government  
User: Mei-Ching Tsoi

### Submissions Details

**Submission ID:** 52064  
**Submission Type:** Opening Submission  
**Submission Timestamp:** 2013-09-19 10:20:51  
**File Name:** [CarbonUpdateSU.xml](#)  
**User Reference:** UpdateCarbonSUS  
**Status:** Accepted  
**Submitter:** IDIR\MTSOI

Message	Date
Outcome of submission: 52064:	2013-09-19 10:21:08
Opening ID: 1018324 / OPN #: / Lic: CP: Blk: / TM: Blk: has been received by MOF.	

Confirmation of Pending, Acceptance, or Rejection

Ability to reference XML submitted and any submission errors if rejected.

# Help Resources

<http://www.for.gov.bc.ca/his/results/support.htm>

<http://www.for.gov.bc.ca/his/results/training/index.htm>

## Application Support

Please follow the steps below when you encounter a problem with RESULTS.

1. Review the [RESULTS Questions & Answers](#) web page to determine if your question has already been answered.
2. Check with your district resource clerk/LIM staff, if appropriate.
3. Contact your regional RESULTS contact if one exists. See the list of [Region and Districts RESULTS contacts](#) and [BCTS TSO RESULTS contacts](#).
4. Contact the Business Application Service Section (BASS). Please include the application name somewhere in the subject line so it will be sorted into the appropriate help folder.

Phone: (250) 952-6801

Email: [nrsenquiries@gov.bc.ca](mailto:nrsenquiries@gov.bc.ca)

## Training & Resources

Work is underway to transition to new training format.

Only the pre-recorded Live Meeting Woodlot modules will be available for viewing and can be via Windows Media Player. Please contact Application support to acquire download of the recording.

[Online training](#) is available for Core RESULTS Modules. Please refer to the link on any upcoming course offerings. Online training link for your reference:  
<https://attendee.gototraining.com/49x65/catalog/3931598846459390464>

[Face-to-face sessions](#) are offered periodically, based on major application developments and/or special needs identified by operational, regional and/or headquarters level. *There are currently no plans for face-to-face sessions.*

An [online reference](#) also provides a high level overview for those who are new to RESULTS and need a general overview of the application components.

## List of Core Modules

Type	Topic	Last Updated
Powerpoint	<a href="#">Module 1: Obligation Reporting- Policy and Business Context</a>	Nov 2013
	<a href="#">Policy and Business Context - Recording</a>	Oct 2014
Powerpoint	<a href="#">Module 2: Obligation Reporting -Online Entry and Mandatory ESF Conditions</a>	Nov 2013
	<a href="#">Online Entry and Mandatory ESF Conditions - Recording</a>	Oct 2014
Powerpoint	<a href="#">Module 3: Obligation Reporting -Submitting by ESF</a>	Nov 2013
	<a href="#">Submitting by ESF - Recording</a>	Oct 2014
Powerpoint	<a href="#">Module 4: Obligation Reporting – Standards Unit Modifications Overview</a>	Nov 2013
	<a href="#">Standards Unit Modifications Overview - Recording</a>	Oct 2014
Powerpoint	<a href="#">Module 5: Obligation Reporting – Standards Unit Modifications – ESF</a>	Nov 2013
	<a href="#">Standards Unit Modifications - ESF - Recording</a>	Oct 2014