RESULTS Training

Carbon Offset Reporting to RESULTS

Welcome to the RESULTS System

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-grown progress on obligations.

Link to:
- Application Website

Sept 2013
Learning Objectives

1. Identify key documentation and reference materials

2. Overview of Online and ESF Components and mandatory requirements for Carbon Offset Projects

3. Demonstration of the creating and update an Opening
Getting Access to RESULTS

Must have bceid account and then apply via Access Request Form

RESULTS

The RESULTS (Reporting Silviculture Updates and Land status Tracking System) application tracks silviculture information by managing the submission of Openings, Disturbances, Silviculture activities and Obligation declarations as required by the Forest and Range Practices legislation.

Data submitted under the Electronic Submission Framework (ESF) is explicitly linked to associated spatial information, thereby ensuring consistency in the geographic information. Information is accessible at all times to Ministry and forest industry staff either on-line or through various reports. All data (including Spatial data) is replicated to the Ministry of Agriculture and Lands - Integrated Land Management Bureau's Land Resource Data Warehouse (LRDW) and can be viewed in RESULTS using MapView. Information providers may subscribe to the LRDW Distribution Service where users can order data for download from the warehouse.

Ongoing updates to this site provide stakeholders with information and status of the project.

For further support, please see Application Support.
Business and Policy Documentation

The following documents provide information on RESULTS policies and procedures.

Submission Specifications

- **CF Memo (RISS-IIs)** – 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.

- **RESULTS Information Submission Specifications: Licensee Submissions (Edition 3b)** – Edition 3b of the Silviculture Information Submission Guidebook describes submission specifications for electronic submissions to RESULTS via the Electronic Submission Framework, including how to obtain access to RESULTS, and the various reporting components: Opening Key, Opening Definition, Disturbance Activity, Silviculture Activity, Forest Cover Inventory, and Milestone Declaration. Includes attribute and spatial mapping submission specifications for each report type. Spatial concepts, mapping and precision standards, legislation reference, and code lists are also provided. Edition 3b includes revisions to sections 5.7.3.3.1, 5.7.3.4.2 and 5.7.3.5.2.

- **RESULTS Information Submission Specification - gf - Edition 4** - December 2012 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.
Technical Documentation

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

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

Reference is by schema item.

**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 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**: 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.
Tech Specs has Online Reference with business rules and field specific edits.

Reference by Screen Number.
Technical Documentation Codelists

http://www.for.gov.bc.ca/his/results/techDocs.htm
Conceptual – Carbon Offset Reporting

Licence of Occupation

New Openings represented by Carbon Offset Contract

Carbon Offset Contractor ABC
- Opening 1
- Opening 2
- Opening 3

Carbon Offset Contractor DEF
- Opening 4
- Opening 5
Reporting Steps

1. Online – Create new Opening in RESULTS
2. Submit ESF for Opening Spatial and Standards Unit(s) with MOF Default Standards
3. Submit Activities (Online or ESF)
4. Submit ESF Forest Cover
1. Online – Create new Opening in RESULTS

Welcome to the RESULTS System

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2013-06-18

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Link to:
- Application Website
1. **Online – Create new Opening in RESULTS**

### RESULTS 301 - Opening Inquiry

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening:</td>
<td></td>
</tr>
<tr>
<td>Licensee Opening Id:</td>
<td></td>
</tr>
<tr>
<td>Opening Status:</td>
<td></td>
</tr>
<tr>
<td>Dist Admin Zone:</td>
<td></td>
</tr>
<tr>
<td>Block Status:</td>
<td></td>
</tr>
<tr>
<td>TSB:</td>
<td></td>
</tr>
<tr>
<td>Management Unit ID:</td>
<td></td>
</tr>
<tr>
<td>Opening Location:</td>
<td></td>
</tr>
<tr>
<td>Original Approval:</td>
<td></td>
</tr>
<tr>
<td>Actual Disturbance Start:</td>
<td></td>
</tr>
<tr>
<td>Post Harvest Declared Date:</td>
<td></td>
</tr>
<tr>
<td>Regeneration Declared Date:</td>
<td></td>
</tr>
<tr>
<td>Regeneration Offset:</td>
<td></td>
</tr>
<tr>
<td>Regeneration Due Date:</td>
<td></td>
</tr>
<tr>
<td>Regeneration Overdue:</td>
<td></td>
</tr>
<tr>
<td>Free Grow Declared Date:</td>
<td></td>
</tr>
<tr>
<td>Free Grow Offset:</td>
<td></td>
</tr>
<tr>
<td>Free Grow Due Date:</td>
<td></td>
</tr>
<tr>
<td>Free Growing Overdue:</td>
<td></td>
</tr>
<tr>
<td>Pre-Harvest Stand Label:</td>
<td></td>
</tr>
<tr>
<td>Previous Stand Type:</td>
<td></td>
</tr>
<tr>
<td>Previous Timber Type:</td>
<td></td>
</tr>
<tr>
<td>Species 1:</td>
<td></td>
</tr>
<tr>
<td>Species 2:</td>
<td></td>
</tr>
<tr>
<td>Age Class:</td>
<td></td>
</tr>
<tr>
<td>Height Class:</td>
<td></td>
</tr>
<tr>
<td>Stocking Class:</td>
<td></td>
</tr>
<tr>
<td>Site Index:</td>
<td></td>
</tr>
<tr>
<td>Site Index Source:</td>
<td></td>
</tr>
<tr>
<td>Maximum Allowable Permanent Access:</td>
<td></td>
</tr>
<tr>
<td>Opening Gross Area (ha):</td>
<td></td>
</tr>
<tr>
<td>Last Updated:</td>
<td></td>
</tr>
<tr>
<td>Spatial data exists:</td>
<td></td>
</tr>
<tr>
<td>Site Plan/Forest Cover Map Date:</td>
<td></td>
</tr>
<tr>
<td>Map:</td>
<td></td>
</tr>
</tbody>
</table>

**Go to Bottom of S301 Opening Inquiry**

“**Add**” to Add new Opening
1. Online – Create new Opening in RESULTS

**Mandatory Fields**
- Org Unit
- Opening Category: CONT
- Opening Gross Area: Treatment Area (ha)
- Approval Date: Date of Treatment

**Optional Field**
- Opening Location may assist in tracking of the Carbon Offset Contract

System will default Max Allowable Permanent Access to 7%
1. Online – Create new Opening in RESULTS

- Optional Fields:
  - Licensee Opening ID may be useful for tracking
  - Opening Location is entered at Opening creation but cannot be updateable online once created.

- Lower portion of screen is updatable. Fields available for update are in boxes.

- Opening will default to “APP” Approve Status

- System will default Max Allowable Permanent Access to 7%

- If modify data – Need to “Save”
2. Submit ESF for Opening Spatial and Standards Unit(s) with MOF Default Standards

MOF Defaults can be searched via S501

Specify:

- HFP for Ministry Defaults
- Default Standards Ind: Yes (MOF Default)
- Regime Status: Approved

May search by BEC to narrow options
Resource Practices Branch have default standards that are based on FDP Stocking Standards.

These are recommended for use for Carbon Offset Projects.

Standards ID numbers are used for Standards Unit’s Stocking Standards for ESF submission as `<rst:standardRegimeID>`

Resource Practices Branch’s Default Standards may be used by any Org Unit and any Clients for Carbon Offset Projects.
Software example uses EzLink for illustration purpose of ESF set-up

Opening ID created from online process is used for submission

“U”- Update will be used for include new SUs to existing Opening

No data is required for opening definition unless you want to update.

Site Plan Exemption is set to “N”

Opening Spatial represented all carbon treated areas included in Opening Definition

Standards Unit(s) is included with mandatory Data:
- Standards Unit ID
- Net Area
- BEC
- Maximum Soil Disturbance
- Valid Standards Regime ID (use Ministry FDP Default Stocking Standard)
- SU boundary(s)

Ezlink is a propriety software. There are other software that maybe used to create ESF submission.
2. Submit ESF for Opening Spatial and Standards Unit(s) with MOF Default Standards

XML must contain:

- Meta-data of submitter who is authorized to submit to RESULTS
- Key – use Opening ID as the key
- Action Code of “U” to update the standards unit component
- Site Plan Exempt Indicator as “N”
- Opening Spatial – comprise of all treatment reported for the carbon offset project
- Standards Unit(s) – comprised of the treatment area as the Net Area, BEC, Max. Allowable Soil Disturbance, and Standards Regime ID approved for use (use Ministry FDP Stocking Standard Defaults), and Standards Unit(s) spatial.
Submission Process

Must specify Submission Type: Opening Submission
Electronic Submission - Confirm Submission

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
- View Map
- Cancel Submission
Submission Process

**Must specify Submission Type:** Opening Submission

**Confirmation of Pending, Acceptance, or Rejection**

Ability to reference XML submitted and any submission errors if rejected.
2. Submit ESF for Opening Spatial and Standards Unit(s) with MOF Default Standards

XML must contain:

- One or more SUs created with BEC, NAR, Max Soil Disturbance %
- Standards Regime ID will default all data elements the SU (RG/FG Offsets, Stocking Standards)
- SP Map and Opening Spatial
3. Submit Activities (Online or ESF)

Use “I”-Insert for newly completed activities

Disturbance Activity must exists (pre-condition for Forest Covers Submission)

Mandatory:

• Action Code: “I”-Insert
• Disturbance Code: “E”- Stand Enhancement Disturbance Code
• Disturbance Start Date (start of treatment date)
• Treatment Area as the Gross Area

```
<rst:Disturbance>
  <rst:disturbanceCode>E</rst:disturbanceCode>
  <rst:disturbanceStartDate>2013-09-01</rst:disturbanceStartDate>
  <rst:system>System: Select System</rst:system>
  <rst:variant>Variant: Select Variant</rst:variant>
  <rst:disturbanceArea>10</rst:disturbanceArea>
  <rst:licenseeID>test</rst:licenseeID>
  <rst:actionCode>I</rst:actionCode>
</rst:Disturbance>
```

RESULTS316 - Disturbance Results

<table>
<thead>
<tr>
<th>ATU ID:</th>
<th>1027019</th>
<th>Licensee Activity ID:</th>
<th>test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual Base Activity:</td>
<td>DN - Denudation</td>
<td>Disturbance Code:</td>
<td>E - Stand Enhancement</td>
</tr>
<tr>
<td>Disturbance Area(ha):</td>
<td>10</td>
<td>Disturbance End Date (YYYY-MM-DD):</td>
<td></td>
</tr>
<tr>
<td>Cut Block:</td>
<td></td>
<td>Licence Number:</td>
<td></td>
</tr>
<tr>
<td>Comments:</td>
<td>No</td>
<td>Cutting Permit:</td>
<td></td>
</tr>
<tr>
<td>Disturbance Complete:</td>
<td>Map:</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>
3. Submit Activities (Online or ESF)

Use “I”-Insert for newly completed activities
Use Funding Source “CBI”
Optional: Licensee ID or fundingProject fields can assist in providing added information for tracking (Carbon Offset Agreement number)
Mandatory:
- Base/tech/method
- Funding Source Code
- Completion Date
- Treated amount
- If Planting, Seedlot/Veglot, Species and Number trees planted

```
<rst:SilviculturalActivity>
    <rst:activityBase>PL</rst:activityBase>
    <rst:activityTechnique>PL</rst:activityTechnique>
    <rst:activityMethod>CTAIN</rst:activityMethod>
    <rst:fundingSource>CBI</rst:fundingSource>
    <rst:fundingProject>1234564</rst:fundingProject>
    <rst:actualDateIndicator>true</rst:actualDateIndicator>
    <rst:activityDate>2013-09-01</rst:activityDate>
    <rst:netAreaTreated>10</rst:netAreaTreated>
    <rst:licenseeID>test</rst:licenseeID>
    <rst:actionCode>I</rst:actionCode>
    <rst:PlantingStock>
    <rst:seedlot-Veglot>25203</rst:seedlot-Veglot>
    <rst:species>PLI</rst:species>
    <rst:numberPlanted>10000</rst:numberPlanted>
    </rst:PlantingStock>
    </rst:SilviculturalActivity>
```
4. Submit Forest Cover (ESF Only)

Use "I"-Insert represented the forest cover for the treated areas
Use Reserve Type Code: "C"-Carbon Reserve Objective Code: "CAR"-Carbon

Mandatory:
- Polygon ID, Forest Cover Area, Stocking Status, Stocking Type, Site Index, Site Index Source Code, Reference Year
- Inventory and Silviculture Components with Density, Species, Species %, Avg Ht and Avg Age
- FC Spatial representing the treated area

```xml
<gm:MultiPolygon>
  <rst:extentOf>
    <rst:standardsUnitId>A</rst:standardsUnitId>
    <rst:licenseeID>A</rst:licenseeID>
    <rst:area>10</rst:area>
    <rst:referenceYear>2013</rst:referenceYear>
    <rst:reserveTypeCode>C</rst:reserveTypeCode>
    <rst:reserveObjectiveCode>CAR</rst:reserveObjectiveCode>
    <rst:siteIndex>15</rst:siteIndex>
    <rst:siteIndexSource>H</rst:siteIndexSource>
    <rst:stockingStatus>IMM</rst:stockingStatus>
    <rst:stockingType>NAT</rst:stockingType>
  </rst:layerList>
  <rst:Layer>
    <rst:layerCode>1</rst:layerCode>
    <rst:totalStems>1000</rst:totalStems>
    <rst:wellSpaced>800</rst:wellSpaced>
    <rst:treeSpeciesList>
      <rst:speciesCode>PLI</rst:speciesCode>
      <rst:speciesPercent>100</rst:speciesPercent>
      <rst:averageAge>3</rst:averageAge>
      <rst:averageHeight>2</rst:averageHeight>
    </rst:TreeSpecies>
  </rst:layerList>
</rst:ForestCoverPolygon>
```
Demonstration
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: nrseruiries@gov.bc.ca

List of Core Modules

- **Recommended RESULTS training modules by job function**
- **Overview** – includes information on MapView, service provider system and how RESULTS fits with other Ministry applications.
- **Amendments and Updates** – information on when an amendment is required and when an update or correction is sufficient.
- **Stocking Standards Under FSP’s** – searching for existing, approved stocking standards and information on generating new stocking standards, by modifying existing standards or creating new standards from scratch.
- **Generating Reports** – information on navigating in the RESULTS application environment and using the CRS environment to generate reports.
- **RESULTS and MapView** – information on the MapView application and how it relates to RESULTS.
- **Obligation Reporting** – how and what to report to RESULTS. Focuses on submissions related to opening definition, disturbance, silviculture activity, forest cover polygon and milestone declarations.
- **Amalgamations and FRPA 108 Applications** – the newest additions to the RESULTS application, including amalgamations and FRPA 108 applications.
  - RESULTS s27.1 Process Diagram
- **Reporting Government Funded Activities - FFT Training** – For participants in the FFT program.
  - FFT Planning Training Session
  - Live Meeting Juvenile Spacing Reporting Dec 5, 2012
  - Training Materials RESULTS Juvenile Spacing Reporting
- **Forest Cover and Retention Reporting** – Provide an overview of submitting forest cover to RESULTS for openings with tree retention – interim procedures
- **RESULTS Training for FRPA Section 197**