

ISMC Base Station and ISMC Mobile Quick Start Guide

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ISMC Version 1.2.0

DRAFT 3.2



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About this Software

ISMC consists of three main parts:

1. **ISMC Host** is a web-based application that manages people, companies, contracts, projects, and samples.
2. **ISMC Base Station** is a desktop computer application that transfers data between ISMC HOST and ISMC Mobile. It also allows for data entry, validation of data, and production of reports.
3. **ISMC Mobile** is an electronic field recorder (EFR) application for data collection in the field. ISMC Mobile and EFR are used interchangeably to refer to the application.

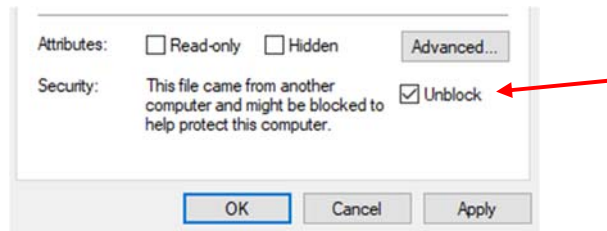
This guide is focused on the ISMC Base Station and Mobile applications.

ISMC Base Station Installation and Startup

Initial Installation on a Windows 7 or Windows 10 PC

Note: You may require Administrator level access to install some of the installations.

When an executable (.exe) file is downloaded, it may need to be 'unblocked' to provide permission for the computer to install it. Right-click on the file and select *Properties*. At the bottom of the Properties window click the *Unblock* box.



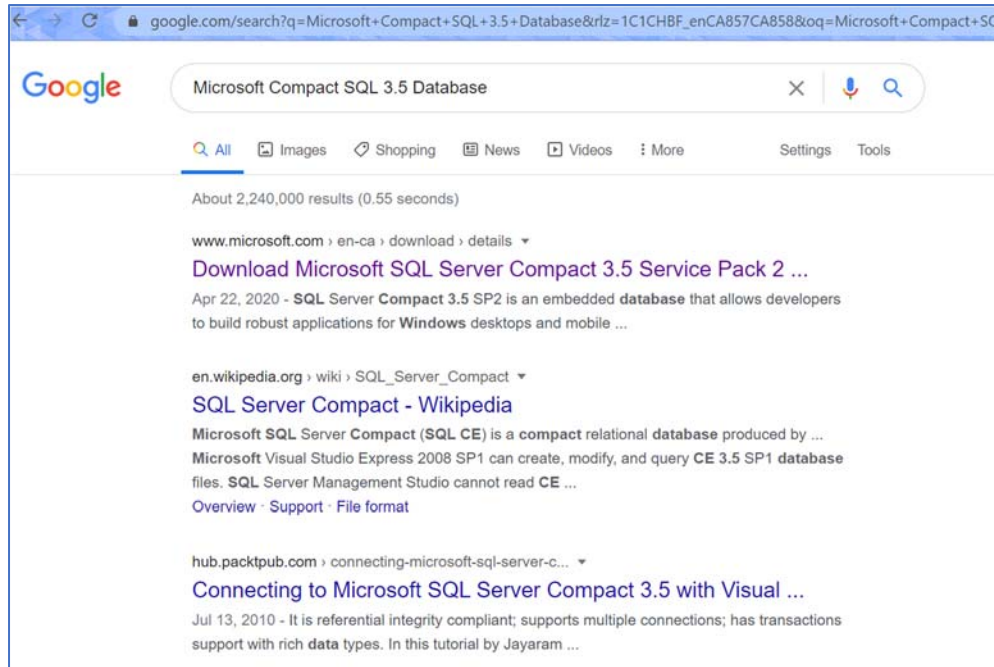
1. Download *ISMC.BaseStation-Installer-<buildNumber>.zip* to your desktop from your contract manager.
2. Note that the <buildNumber> will be updated depending on the current build/test cycle
3. Unzip the file
4. Click on *setup.exe*:



- Note that the setup may take some time (approx. 10 minutes) as the application may need to download .NET files on your machine
- Allow this section to complete before the next step, you may be prompted to reboot. Please do so before proceeding.
- You may receive an error indicating that a Windows Mobile Device Driver is missing. This will be rectified in the next steps.
- If you are on Windows 10, you may also receive an error regarding the database. Please Install the compact sql 3.5 db (you will need both versions: 32 & 64)

Microsoft does not enable direct links to their downloadable files, so the user has to search for the information. Search for *Microsoft Compact SQL 3.5 Database* using your favourite search engine. The link you need to get to will usually be first in the search results.

<https://www.google.com/search?q=Microsoft+Compact+SQL+3.5+Database>



Select your language and download.

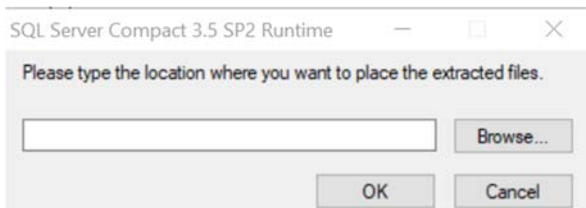
Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop

Important! Selecting a language below will dynamically change the complete page content to that language.

Select Language:

This will download a file called: SSCERuntime-ENU.exe Usually this ends up in your Downloads folder.

- run this EXE. **NOTE** that this does not install the files your machine needs, it only extracts the required MSI
- It will ask you where you want to put the extracted files



- You may put these 2 extracted files anywhere. Desktop. Downloads. It does not matter.



- Both files must be double clicked and installed to complete the SQL installation. Start with the 64 then then 86
- Once completed, this will successfully install the Microsoft Compact 3.5 Database files for the Base Station to operate successfully.

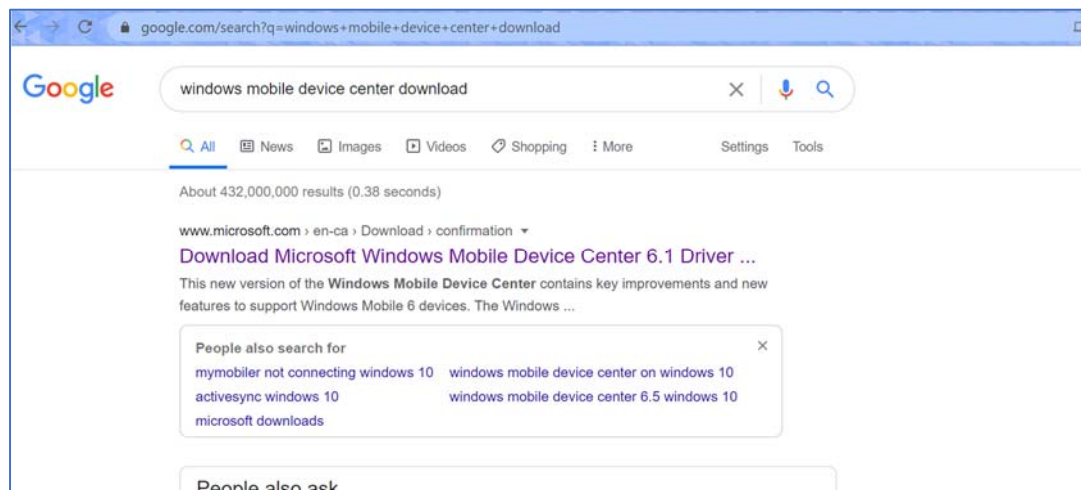
5. Download Windows Mobile Device Center (WMDC) from:

Microsoft does not enable direct links to their downloadable files, so the user has to search for the files.

To retrieve the WMDC, please search for: *windows mobile device center download*

<https://www.google.com/search?q=windows+mobile+device+center+download>

This is usually the first result retrieved.

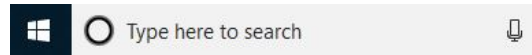


Click on the link.

A file called: **drvupdate-amd64.exe** will get downloaded to your machine, likely to your Download folder.

- Right-click the drvupdate-amd64.exe file and choose “Run as Administrator” to start the install

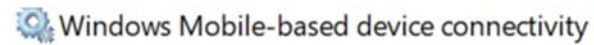
6. Go to your Windows Start Menu and search for *Services*:



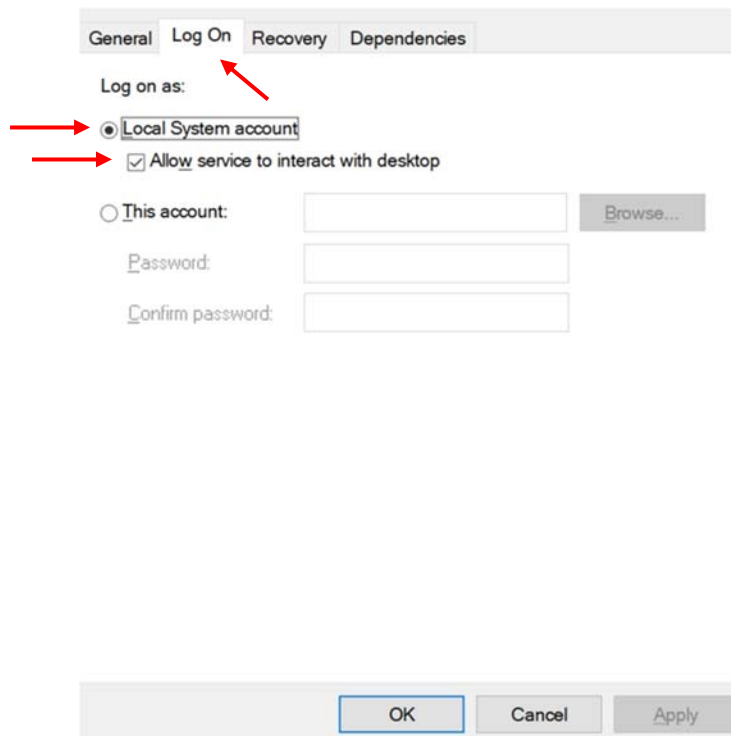
7. Open Services



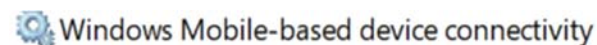
8. Navigate to *Windows Mobile-based device connectivity*:



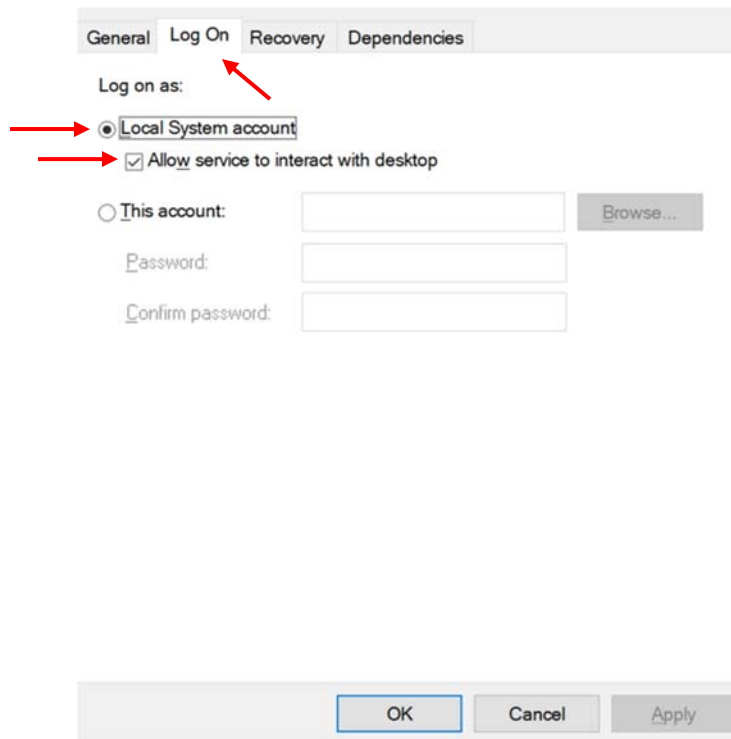
- Double click to open
- Navigate to the log on tab
- Change settings to log on as:
 - Local System account
 - Allow service to interact with desktop
- Click *OK*



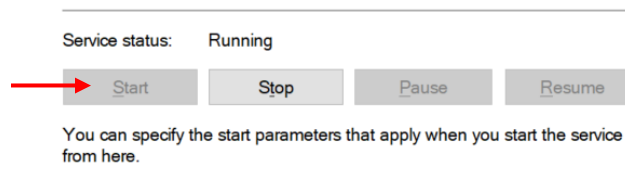
9. Navigate to *Windows Mobile-2003 based device connectivity*:



- Double click to open
- Navigate to the Log on tab
- Change settings to log on as:
 - Local System account
 - Allow service to interact with desktop
- Click *OK*



10. Restart *Windows Mobile-based device connectivity*, then restart *Windows Mobile-2003-based device connectivity*



11. Rerun ISMC Base Station *setup.exe*



12. Click the ISMC Base Station icon to open the app



Updating ISMC Base Station

When Base Station is updated, follow these steps.

1. Remove the existing ISMC Base Station using the windows system settings for Add/Remove Programs
2. Navigate to: **C:\ProgramData\ISMC** and remove the directory **\ISCM**

NOTE: Backup any zip files in a temporary directory before removing the ISMC directory

3. Download *ISMC.BaseStation-Installer-<buildNumber>.zip* to your computer from:
<http://www.drssystemsincc.com/drsftp/drsconsulting/>
4. Note that the <build number> will be updated depending on the current build/test cycle
5. Unzip the file
6. Click on *setup.exe*



7. Proceed with installation

Note: ISMC Base Station updates require re-installing ISMC Mobile on the EFR.

Windows Mobile Device Centre Problems

Windows 10 does not use the Windows Mobile Device Center like previous Windows versions have. Windows 10 performs background system updates, which may remove the *Windows Mobile-2003-based device connectivity* from your services menu.

If a Windows update has occurred, you might encounter errors with the Base Station due to this missing service. If this occurs, please refer to *Initial Installation* and perform steps 6 through 9 again. You may also have to restart the computer.

Starting ISMC Base Station

Downloading Project Files from ISMC Host

Samples must be downloaded from ISMC Host before being imported to Base Station or deployed to an EFR.

Log onto ISMC Host: <https://dlvrapps.nrs.gov.bc.ca>

Click on the *Review Samples* tab.



From the *Review Samples* page, enter *Search Criteria* to find the project. Samples are listed in the *Search Results* window.

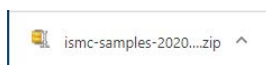
Project ID	Sample Site ID	Sample Type	Sample Intent	Visit #	Visit Date	Sample Status	Contract Number	Validation Results
016M	016M_1286801	Change Monitoring Inventor	Site Establishment	1	Oct 02, 2019	Submitted	OT20FHQ020	5 Errors, 15 Warnings
016M	016M_1286806	Change Monitoring Inventor	Site Establishment	1	Sep 27, 2019	Submitted	OT20FHQ020	11 Errors, 46 Warnings
016M	016M_1286811	Change Monitoring Inventor	Site Establishment	1	Sep 28, 2019	Submitted	OT20FHQ020	13 Errors, 66 Warnings
016M	016M_1286806	Change Monitoring Inventor	Quality Assurance /	2		Downloaded		

Select one or more samples in the *Search Results* and click *Download*.



NOTE: When selecting files to download, select by sample number and intent (e.g. QA, REMEAS, etc.)

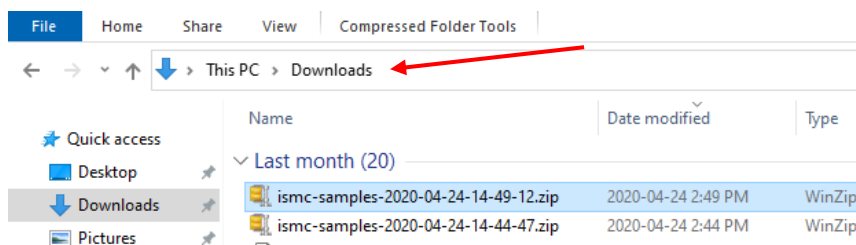
A ZIP file of the samples selected will download to your computer's Downloads directory.



Refer to *ISMC Host Quick Start Guide* for further instructions.

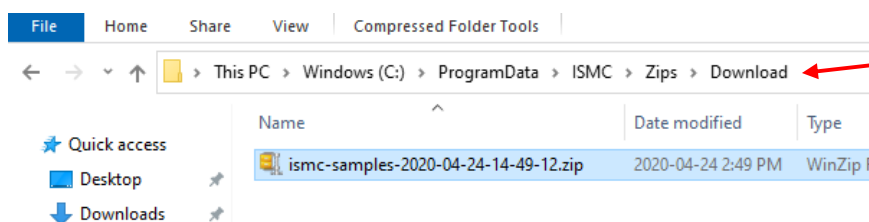
Importing Project Files into ISMC Base Station

With Base Station closed, move the ZIP file from the Downloads directory into the ISMC directory.



Open *File Explorer* on your computer copy and paste the ZIP file from Host in:

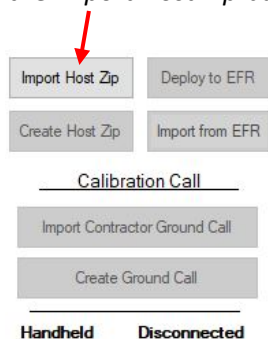
C:\ProgramData\ISM\Zips\Download



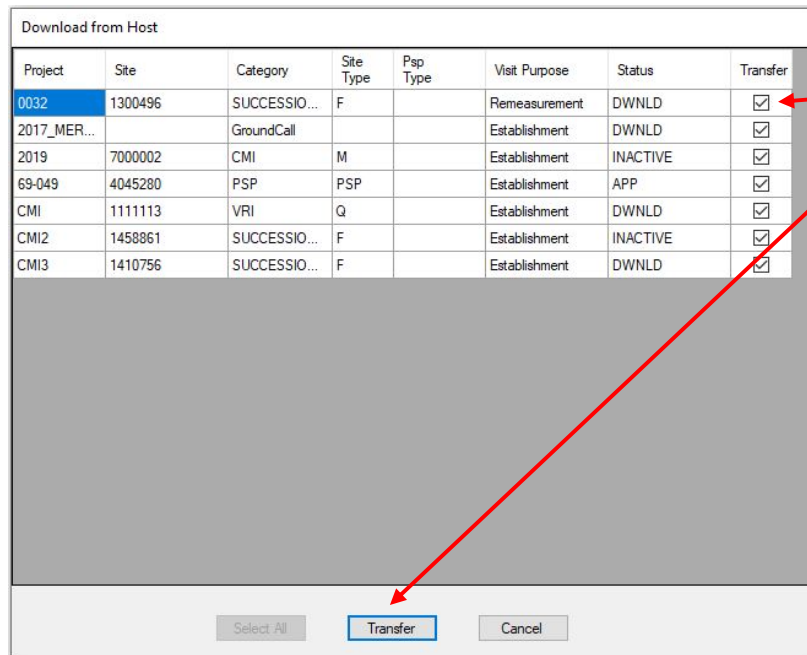
Then open Base Station.

From Base Station:

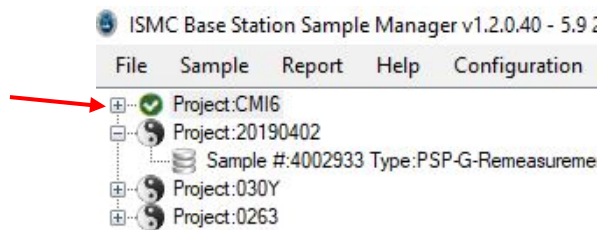
1. Click on the *Import Host Zip* button on the bottom-left corner of the Base Station screen



2. When the *Download from Host* window opens, select the files to import into Base Station by clicking on the *Transfer* box for a sample, or *Select All* button, then click the *Transfer* button on the bottom of the window



3. The window closes when the files are transferred
4. The project will appear in the upper left window. Click + to expand the projects to show samples



ISMC Mobile Installation and Startup

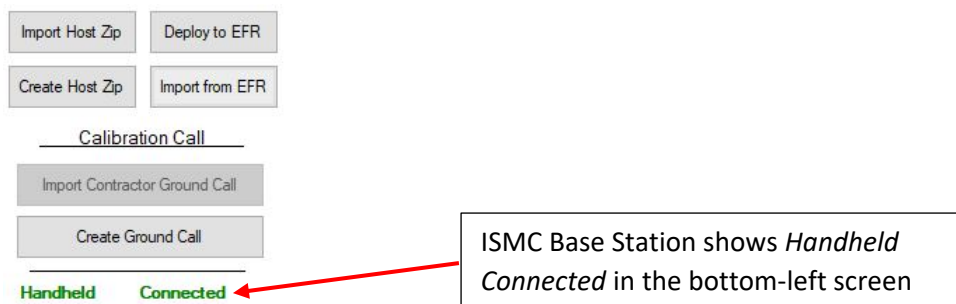
Initial Installation

The Base Station must be installed and the EFR successfully connected to the desktop to perform these tasks.

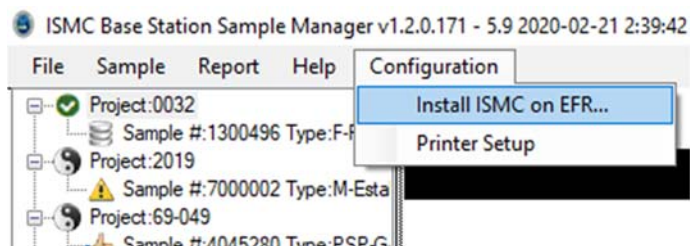
1. Open Windows Mobile Device Center



2. Open ISMC Base Station and check that the EFR is connected



3. Select *Configuration* in the top-left corner of the Base Station window and click on *Install ISMC on EFR...* to install

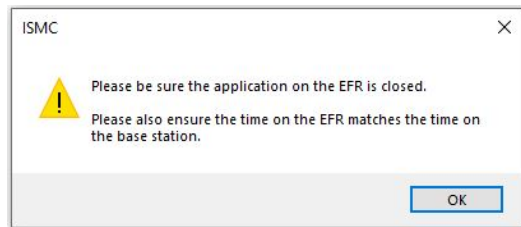


Note: Installation may take several minutes and may require actions on the EFR. Monitor both screens for instructions during installation.

Deploying Project Files to the EFR

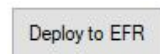
You can't create new projects or samples from the EFR. New projects must be created in HOST and downloaded to Base Station before being deployed to the EFR.

The Base Station must be open and the EFR successfully connected by *Windows Mobile Device Center* to the desktop to perform these tasks. **The EFR ISMC application must be closed.**

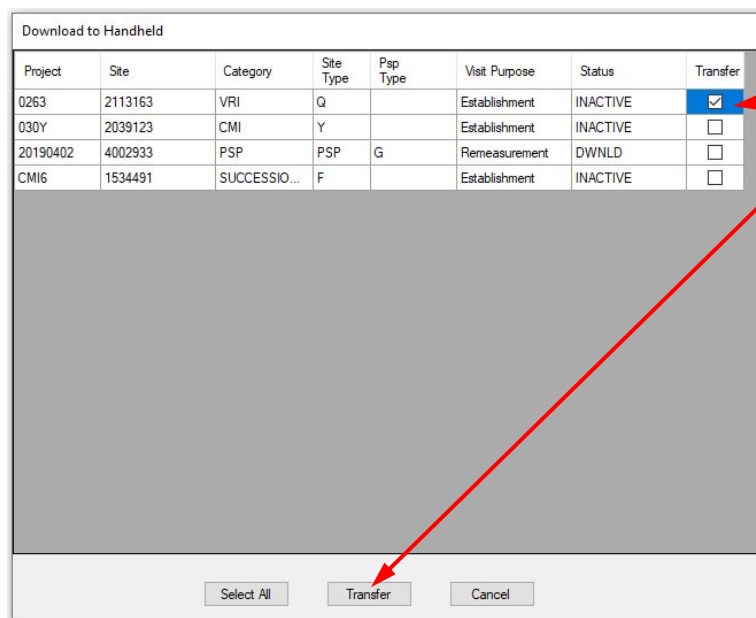


From the Base Station:

1. Click on *Deploy to EFR* button in the bottom-left corner of the *Base Station*



2. When the *Download to Handheld* window opens, select files (*Project* and *Site*) to deploy to the EFR by clicking on the *Transfer* box, or click the *Select All* button, then click the *Transfer* button at the bottom of the window



3. The window closes when the file is transferred

Files that appear in red text are files that already exist in ISMC Mobile.

ISMC Mobile Updates

ISMC Mobile is not updated independently from Base Station. Whenever Base Station is updated, Mobile needs to be re-installed on the EFR.

Note: Samples on the EFR may be over-written during installation.

Working with a Sample on the EFR

This section is based on working with a full CMI sample, but most screens and features work in all sample types. Additional instructions for other sample types (Remeasurements, PSP's, VRI, Quality Assurance, and Ground Calls) is shown in other sections.

Opening a Sample on the EFR

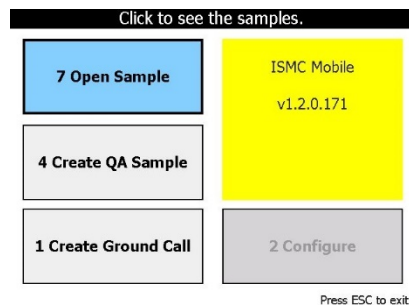
1. On the EFR, navigate to the applications screen by screen-clicking the Windows button in the bottom-left corner of the screen



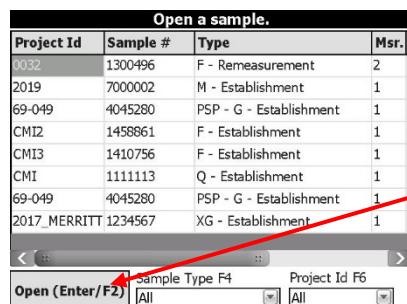
2. Scroll and locate the ISMC Mobile icon and screen-click to open



3. From the ISMC Mobile main screen, click on *Open Sample* or press 7



4. From the sample list, use the ARROW keys to navigate to the sample, then click F2 or ENTER to open. Samples can be sorted by *Sample Type* and *Project ID* on the bottom of the screen.

A screenshot of the "Open a sample." screen showing a table of samples. A red arrow points to the "Open (Enter/F2)" button at the bottom left. The table has columns for Project Id, Sample #, Type, and Msr. Below the table are two dropdown menus for "Sample Type F4" and "Project Id F6", both currently set to "All".

Project Id	Sample #	Type	Msr.
0032	1300496	F - Remeasurement	2
2019	7000002	M - Establishment	1
69-049	4045280	PSP - G - Establishment	1
CM12	1458861	F - Establishment	1
CM13	1410756	F - Establishment	1
CM1	1111113	Q - Establishment	1
69-049	4045280	PSP - G - Establishment	1
2017_MERRITT	1234567	XG - Establishment	1

When the sample is opened, the main menu screen will show the sample menu buttons. Screen-click, TAB, ARROW key, or enter the number of the button on the menu to open the main sample screen.

Home		
Header Forms 7	Succession 8	Tree Shrub Herb Moss 9
Trees Details 4	Sample Trees 5	Small Tree & Stump Plot 6
Walkthrough 1	Transects 2	Ecology 3
Photos 0	Access Notes (.)	

Click ESC to return to the previous menu from any data field.

Header Forms

Header Forms 7

When *Header Forms* is highlighted, click ENTER or press 7 for the header menu pop-up menu. Use ARROW keys to navigate and click ENTER on the menu item, or press numbers, to open the data fields.

7 Header
4 Navigation
1 Plot Cluster

Data fields can be selected by screen-clicking on them, clicking left/right TAB to reverse or advance. The highlighted field will automatically advance to the next field when completed. Fields with drop-down lists are activated by clicking ENTER, ARROW key to select, then click ESC.

Header

From the pop-up menu, use ARROW keys to navigate to *Header* and click ENTER, or screen-click on the menu item, or click 7 to open the data fields.

Enter the survey end date.	
Survey Date: 11/24/16	Tree: Raoul Tweeden
End Date: 12/7/16	Typical CW Debris: Nick Jefferson
BEC: ICH xm	Typical Trees: Y
Nfi Grid: 6631	Ecology: Nick Jefferson
Location: Southern Interior	Succ. Int.: Don Jefferson
Stem Map Req.	Typical Ecology: Dinah Friendly
Stand Disturbance: Y	Helper: Jim Campbell
Notes To Crew: Forgot the GPS, we are lost!	

F10-Toggle : Previous

Click ESC to return to the main menu.

Navigation

From the pop-up menu, use the ARROW keys to navigate to *Navigation* and click ENTER, or screen-click on the menu item, or click 4 to open the data fields.

The screenshot shows a 'Navigation' screen with the following fields and values:

- Access Point: Not Set
- Tie Pt. SPP: Diam 55.2, Azim 25, Dist 12.00, Tag# 123456
- Tie Point GPS: Not Set
- Ref. Pt. S, 55.2, 25, 12.00, 123456
- Offset Reference Pin: , F10-Toggle: Previous
- IPC: Bearing, Calc. Date, Azim, Dist, Calc. Declin, Declin
- Dist to 23/07/15, 0, 20.00, 17.3, 17.3
- IPC: , , GPS Type: (dropdown)
- GPS Identifier: (text field)
- Intended IPC GPS Coordinates: Not Set
- Actual IPC GPS Coordinates: Not Set

Click ESC to return to the main menu.

Plot Cluster

From the pop-up menu, use ARROW keys to navigate to *Plot Cluster* and click ENTER, or screen-click on the menu item, or click 1 to open the data fields.

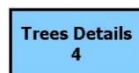
The screenshot shows an 'Enter Fixed plot radius (m)' screen with the following fields and values:

- BAF: 11.28
- Status: Collected (dropdown)
- Walkthrough Plot? (checkbox)
- Measurement Date: 6/21/00 (dropdown)
- Pin Offset: Azim. , Dist. ,

Click ESC to return to the main menu.

F12 to access a comment screen for each attribute category (e.g. Trees, Soils, Small Trees, etc.)

Tree Details



When *Tree Details* is highlighted, click ENTER, screen-click on the menu, or click number 4.

Note: *Plot Cluster* data must be completed before *Tree Details* is accessible.

See the *Appendix* for *EFR Quick Navigation Keys*.

Data fields can be selected by screen-clicking on them, clicking left/right TAB to reverse or advance. The highlighted field will automatically advance to the next field when completed. Fields with drop-down lists are activated by clicking ENTER, ARROW key to select, then click ESC.

Click CTRL S at any time to save data.

Note: when exiting any tree screen, a validation results screen may appear showing errors and warnings about existing data. Click ESC to leave the validation screen or go to the *Validation* section in this guide for instructions.

Calculators are available by clicking ENTER on the following fields:

% Bark Calculator
Enter the exposed bark.

Measure with DBH tape

Tree # 625

Exposed Bark: 2.0

Bark Percent: 90

DBH 20.9

Press ESC to exit.

Length Ht. LC Calculator
Click to calculate tree height information.

Top % 100

Crown 50

Slope % 10

Dist. 32.0

0

Total Ht.: 30.0

Crown Length: 16.6

Crown Ratio: 56

Correction 1.3

Close, no Copy F2

Calculate F4

Copy to Tree F6

Net Factor Calculator

Log: 0 Grade: ? Length: 10 Net Factor: 0

Type	Value
Blind Conk	
Broken Top	
Butt Rot	
Cat Face (Cone)	
Cat Face (Cylind	
Cat Face (Box)	
Cat Face (Pyram	
Conk	
Crook	
Dead Top	
Fork	
Frost Crack	
Frost Rotten Br	
Large Rotten Br	
Root Rot	
Sap Rot	

Add F2 Update F3 Del F4 NF=0 F5

A **drop-down list** of options is available by clicking ENTER on the following fields:

- Species
- L/D/S/F
- Crown class
- Damage agent
- Loss indicator
- Grade (old data)

Tree List Screen

The tree list screen shows some details for several trees on the screen. Tab or scroll to advance through tree attributes.

Tree List

IPC #1 1/43 Enter the tagging sector number.

Tree	S	SPP	L/D S/F	DBH	M/E	Bark th	Len	M/E CC	Ht. L.C.	Brkn Top	Res
625	1	FD	L S	20.9	M	100	28.7	M C	21	N	-
626	1	FD	L S	13.2	M	100	24.9	M I	19	N	-
627	1	FD	L S	45.3	M	100	34.3	M D	23	N	-
628	1	FD	D S	11.4	M	100	17.1	M	-	N	-
629	1	FD	L S	16.7	M	100	21.4	M I	16	N	-
630	2	FD	L S	22.8	M	100	26.2	M I	23	N	-
631	2	FD	L S	11.7	M	100	16.6	M I	15	N	-
632	2	FD	L S	85.0	M	100	36.0	M D	24	N	R
633	2	DR	D S	19.6	M	100	2.2	M	-	Y	-

Tree Notes

The black row at the top of the tree details screen shows a description of the cell highlighted.

Tree Details Screen

Click **F5** from the *Tree List* screen to open the *Tree Details* screen for a tree selected. The tree details screen shows all attributes for a single tree on one screen.

Tree Details

Tree Details

Tree	Res	Wal	T. S.	Species	L/D	DBH	M/E	Bark	Len
625	-	1	FD	L S	20.9	M	100	28.7	
M/E	CC	Ht. LC	Brkn Tp	Ctrl-F5 Sample		Azim	H. Dist		
M	C	21	N			6	2.22		

Damage Agents		Net Factor		Loss Indicators			
Dmg	Sev	Grd	Len	%S	Code	From	To
O		J	99	100			

Mode

☐ Tree Notes

Click **F5** to return to the *Tree List* screen.

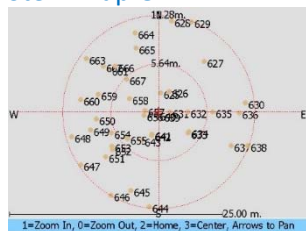
Form Commands – Tools Screen

From any page in the tree list or tree details, click **F1** for the following options:

<div> <div></div> <div></div> <div></div> </div>				
Stem Map Gfx 5		Plot Notes 6		
Insert Tree 1	Delete Tree 2	Tools 3		
Prev Tree F2	Next Tree F3	Next Section F4	Detail View F5	

The following options are available on **F1**:

Stem Map Gfx



Plot Notes

Comments: Tree Measurement Comm

Parent: Plot Measurement

Current: Tree Measurement - Tree#: 626, Species: FD

Plot Meas. F4

Press ESC key to Exit.

Insert Tree

Insert Tree 1

Delete Tree

Delete Tree 2

Tools

Tools 3

F Key Commands

Prev Tree F2

Next Tree F3

Next Section F4

Detail View F5

From the form commands page, click *Tools*, or click 3 for tools options.

Slope Calculator 7	Butt Rot Guide Table 8	Random Numbers 9
Net Factor Calculator 4	Leading Spp Calculation 5	(6)
(1)	Auto generate Azimuth 2	(3)
(0)	(-)	(.)

The following options are available in *Tools*:

Slope Calculator

Enter the slope distance.

Slope Distance	Slope %
Horiz Dist. () from	
Slope Dist. () from	

Butt Rot Guide

Ratio	Length	Deduction	Gade-Cons.
1/4	1.8 - 2.4m	0.2m	0.6m
1/2	3.6 - 4.2m	0.4m	1.8m
3/4	5.4 - 6.0m	1.2m	3.6m
4/4	7.2m	2.4m	4.2m

Press ESC to exit.

Random Number Table

Random Numbers

Plot Seed: 91 Bearing: 76 Bearing +90: 166

Random 1...

2	3	4	5	6	7	8	9	10	
14	11	3	1	15	12	18	10	6	9
11	12	13	14	15	16	17	18	19	20
13	5	16	19	2	17	20	8	7	4

plt r10 Brg B9C 1 2 3 4 5 6 7 8 9 10 11 12 ^

8 13 26 19 14 11 3 1 15 12 18 10 6 9 13 5

92 62 36 126 13 15 14 19 10 12 1 8 11 4 5 17

93 25 227 317 12 2 19 11 14 10 16 9 15 3 20 17

94 35 342 72 20 4 19 11 6 8 9 10 15 16 5 13

Leading Species Calculator

Species Label: FD92 PLC5 DR2 (1 of 4 less than

Quadrant	Type	Sector	Tree#	Species	DBH	CC
N/E	L	1	627/FD	45.3D		
S/E	L	4	646/FD	30.3C		
S/W	L	6	651/FD	38.2D		
N/W	L	7	663/FD	48.8D		

Displayed Quadrant: All F2 N/E F3 S/E F4 S/W F5 N/W F6

Press ESC to exit.

The sample trees screen is accessible from any tree screen by clicking **CTRL F5**.

Use this screen to identify sample trees by clicking on the sample tree type on the top of the screen.

Once sample trees are identified, they are also accessible from the *Sample Trees* button on the main menu screen. The button will not be selectable until sample trees are identified from the *Tree Details*. The *Sample Trees* button will present a list view of trees selected as site trees. Click **CTRL F5** to enter site tree data.

Click **F5** to return to the tree details screen.

Sample Trees
5

When *Sample Trees* is highlighted, click ENTER or screen-click on the button, or press number 5 to open the data fields.

The *Sample Trees* screen shows all selected sample trees. Click **F2** to view suggested sample trees. To add suggested sample trees, click **CTRL-F5** and select the sample type. Click **F5** to return to the suggested sample trees list. Click **ESC** to return to the sample trees list.

Walkthrough

Walkthrough 1

When *Walkthrough* is highlighted, click ENTER or screen-click on the button, or press number 1 to open the data fields.

Enter bearing to plot center					
Bearing	Distance	Pin1	Pin2	Pin3	Pin4
270	8.01	249.2	110.8	224.8	135.2
0	0.00	0.0	0.0	0.0	0.0

Enter the *Bearing* and *Distance* then TAB through pins 1 to 4 or click the down ARROW key to add more trees.

Small Tree & Stump Plot

Small Tree & Stump Plot 6

When *Small Tree & Stump Plots* is highlighted, click ENTER or screen-click on the button, or click number 6 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

7 Small Tree Plot

4 Stump Plot

Small Tree Plot

When *Small Tree Plot* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Tree Class >130cm				
#	SPP	F7 10-29cm	F8 30-130cm	F9 >130cm
7	FDC	4	0	1
4	HW	11	2	0
1	SS	0	0	1
0		0	0	0
8		0	0	0
5		0	0	0
2		0	0	0
9		0	0	0
6		0	0	0
3		0	0	0

Status: Collected
Mesr Date: 2/25/20
Radius: 2.50
Plot Size: FULL
Plot Type: NORM
Set 0
(Backspace)
+
F6

Press Enter to Count, Press ESC to exit.

The screen is not active unless *Status* is changed to *Collected*.

Use ARROW keys to navigate up and down. TAB to advance to small tree sizes. Click ENTER to add one tree to the highlighted field. **F6** can be used to change the trees being added or subtracted on each ENTER click. Arrow down in the tally columns to add a species.

Stump Plot

When *Stump Plot* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Enter Tree Species									
SPP	Frq	DIB	Len.	WdS	Bark	Wood	A		
BL	1	20.0	0.2	85	5	3			
FD	1	8.0	0.3	90	2	3			
SE	1	19.0	0.2	90	5	2			
SE	1	11.5	0.2	85	4	3			
SE	1	25.0	0.2	90	5	2			
SE	1	15.0	0.2	90	4	3			

Frequency: Enter Key = +1, Space Key = -1,

Status:
Collected

Measurement Date:
9/9/16

Radius:
2.50

Plot Size:
FULL

Plot Type:
NORM

Use the TAB keys to navigate between fields. Click ENTER on bark, wood, activity, and root rot cells for pop-up options.

Tree Shrub Herb Moss

Tree Shrub
Herb Moss
9

When *Tree Shrub Herb Moss* is highlighted, click ENTER or screen-click on the button, or click number 9 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

7 Tree and Shrub

4 Herb and Moss

1 Shrubs

Tree and Shrub Screen

When *Tree and Shrub* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Enter the estimated tree percentage.

Overall Cover Lyr: A B1 B2

Layer Estimated %: 20.0 4.0 1.0

Layer Calculated %: 30.0 4.0 66H

Seedlings < 2 Yr old (5.64m plot)

A B1 B2

> 10m 2-10m < 2m Dh Dw Dr

#	Species	Tree %	Tall Sh. %	Tall HT Sh. %	Low Sh. %	Low HT Sh. %	Soil %	Wood %	Rock %
1	AMELALN	0.0	0.0	10T	0.2	0.0	0.0	0.0	
2	JUNICOM	0.0	0.0	50T	0.3	0.0	0.0	0.0	
3	JUNISCO	0.0	2.5	5.5	30H	0.5	0.0	0.0	
4	PSEUMEN	30.0	1.5	8.5	0.0	0.0	0.0	0.0	
5	RIBELAC	0.0	0.0	0.0	0.1	0.0	0.0	0.0	

F5 - Herb and Moss

Use the TAB keys to navigate between fields. Click ENTER on species for a menu.

Click **F5** to toggle to the *Herb and Moss* screen.

Herb and Moss Screen

When *Herb and Moss* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter.

7 Tree and Shrub

4 Herb and Moss

1 Shrubs

Enter the herbs estimated percentage.

Overall Cover Lyr: C layer Dh Dw Dr

Layer Estimated %: 20.0 7.0 2.0 0.0

Layer Calculated %: 18.1 6.3 0.0 0.0

Herb Soil Wood Rock

#	Species	Herbs %	Soil %	Wood %	Rock %
1	ACHIMIL	1.5	0.0	0.0	0.0
2	ACHINNEL	20H	0.0	0.0	0.0
3	ALLICER	0.0	0.0	0.0	0.0
4	ANTEMIC	1.3	0.0	0.0	0.0
5	ANTENEG	10H	0.0	0.0	0.0

F5 - Herb and Moss

Use the TAB keys to navigate between fields. Click ENTER on species for a menu.

Click **F5** to toggle to the *Tree and Shrub* screen.

Shrubs Screen

When *Shrubs* is highlighted, click ENTER or screen-click on the button, or click number 1 to enter.

7 Tree and Shrub

4 Herb and Moss

1 Shrubs

Enter the frequency.				
Number	Spp	Status	Basal D. Cl.	Freq
1	ARCTCOL	LV	1	26
<div style="float: right;"> Status: Collected ▼ </div>				

Use the TAB keys to navigate between fields. Click ENTER on species for a menu.

Succession

Succession
8

When *Succession* is highlighted, click ENTER or screen-click on the button, or click number 8 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

7 Succession

4 Additional

1 Natural Disturb

Succession Screen

When *Succession* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Disturbance Value:Fs Desc.:severe surface fire.									
Factors Influencing Vegetation Establishment					Tree SPP Succession				
FI 1	FI 2	FI 3	FI 4		Previous		Current		
					Spp 1	Spp 2	Spp 1	Spp 2	
Fs	Aw	Sr			BL	CW	BL	SX	
Tree Harvesting: P					Tree age for species, site series: 				
Snags (> 25cm DBH): S					Tree size for species, site series: I				
Snags/CWD - all stanzas/sizes: S					Old Growth Forest: N Structural Stages: MF				
Canopy gap due to tree mortality: M					<div style="display: flex; justify-content: space-between;"> <div> Old Tree Counts Live Fallen Dead Stumps </div> <div> % Old Live Trees: = 0 </div> </div>				
Vertical Structure: I					Comments: <div style="border: 1px solid black; height: 20px;"></div>				
Successional Stability: I					succession note <div style="border: 1px solid black; height: 20px;"></div>				

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu. Click ENTER on gray fields to toggle between selections.

Additional Succession Screen

When *Additional* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter.

7 Succession
4 Additional
1 Natural Disturb

Succession Stand Structure Value:SNGL Desc.:Single

Stand Structure: SNGL
Success Stage: MS
Wetland Class: N

Tree Cover Origin
Plot Tree Treatment

Origin	Type	Year
HARV	PLA	1972

Type	Year	%Ext
FT	2010	100

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu. Click ENTER on *Origin* and *Type* fields for a menu.

Natural Disturbance Screen

When *Natural Disturb* is highlighted, click ENTER or screen-click on the button, or click number 1 to enter.

7 Succession
4 Additional
1 Natural Disturb

Enter comments for this disturbance.

Agent	Year	%Ext	%Mort	Basis	Comments
FIRE	2015	30		SBA	

Use the TAB keys to navigate between fields. Click ENTER on *Agent* and *Basis* for a menu.

Ecology

Ecology
3

When *Ecology* is highlighted, click ENTER or screen-click on the button, or click number 3 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

38

Site Classification Screen

When *Site Classification* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

7 Site Classification
4 Site Features
1 Soil Features
0 Soil Samples

Site Classification

Map Based BEC:
BEC: ICH mw 1 0

Observed BEC:
BEC: ICH mw 1 0

Uniformity
5

Ecosystem Location

Site Series

Land Cover Classification

Location	SNR	SNR	%	L1	L2	L3	L4	L5
Plot Centre	8	A	40	V	N	U	HE	SP
Site Two	8	A	95	V	T	U	TC	DE
Site Three								

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu. Click ENTER on any fields in *Plot Centre*, *Site Two*, or *Site Three* for the following page for each row.

Site Moisture Regime

Plot Centre

L1 Vegetated

L2 Non-Treed

SMR Hydric

L3 Upland

SNR Very Poor

L4 Herb

% 40

L5 Sparse

Ok

Cancel

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu.

Site Features Screen

When *Site Features* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter.

7 Site Classification
4 Site Features
1 Soil Features
0 Soil Samples

Enter Slope %

Pin Location

Slope %: Aspect: Elevation (m):

Flood Hazard: Meso Slope: Rock Substrates (% Cover)

Flood Hazard: Microtopography: Cobbles/Stones: Bedrock:

Open Water (% Cover) Slope Failure Within Integrated Within Main Plot:

Flowing: Standing:

F6 - Dominant Stratum

Comments:

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu. Click ENTER on gray fields to toggle between selections.

Soils Screen

When *Soils* is highlighted, click ENTER or screen-click on the button, or click number 1 to enter.

7 Site Classification

4 Site Features

1 Soil Features

0 Soil Samples

Enter the organic horizon.

Pin Location

Pred. Surf. Material: Drainage: Humus Form:

Sec. Surf. Material: Moisture: Colour:

Classification:

Depth to (cm): ☒ Not Applicable Pit Bottom:

Water Table: Mottles: Root Rest:

Bedrock: Frozen Layer: Carbonates:

Organic Layers: Mineral Layers:

Horizon	Depth	Colour	Texture	Total Percent	Gravel Percent	Cd Percent
DOP	0.0					
8	100.0	M	LS	85	15	

Use the TAB keys to navigate between fields. Click ENTER on cells with arrows for a drop-down menu. Click ENTER on *Colour* and *Texture* fields for a menu.

Soil Samples Screen

When *Soils Samples* is highlighted, click ENTER or screen-click on the button, or click number 0 to enter.

7 Site Classification

4 Site Features

1 Soil Features

0 Soil Samples

Enter the horizon designation.

Status:

Soil Sample

Loc.	SMP Meth	Type	Horz. Mgr.	WD	Len	Top Dep	Bot Dep	Vol.	Horizons
MP1	C	FF	D	55	65	15.0	50.0	125125	

Use the TAB keys to navigate between fields. Click ENTER on *Location*, *Sample Method*, *Type*, and *Horizon* fields for a menu.

Transects

Transects
2

When *Transects* is highlighted, click ENTER or screen-click on the button, or click number 2 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

7 Coarse Woody Debris

4 Range

1 Surface Substrates

Coarse Woody Debris Screen

When *Coarse Woody Debris* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Enter the shape.

Coarse Woody Debris Transect 1 (F6 - 2)

Azm. Tot. Len. CWD Obs. Len. SWD Obs. Len.

Shape	Species	Diam. or H. Length	Depth	Length	%DC 1	Class Other	Tilt	Merch
R	BL	8.9			95	2	34	N
R	S	15.4			45	3	15	N

< >

Decay Class	1.1 to 3.0 cm.	3.1 to 5.0 cm.	5.1 to 7.5 cm.
2	2	6	0

Use the TAB keys to navigate between fields. Click ENTER on *Shape*, *Class Other* and *Decay Cl. Piece* for a menu. Click *Merch* and *P/R* to toggle selections.

TAB or click to the SWD fields on the bottom of the screen. Click ENTER on *Decay Class* for a menu.

Click **F6** to toggle between transect 1 and 2.

Range Screen

When *Range* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter.

7 Coarse Woody Debris

4 Range

1 Surface Substrates

Herbaceous Forage Degree Value:N Desc.:Nil.

Range Transect 1

Azm. Tot. Len. Obs. Len.

Default Plot Area

Microplots:

Number	Collected	Area	Forage Degree	Forbs Wt.	Gram. Wt.	Others Wt.
1	Y		N			
2	Y		N			

Transect Comments:

F6 - Toggle to Transect 2

Use the TAB keys to navigate between fields. Click ENTER on *Collected* to toggle selections. Click on *Forage Degree* for a menu.

Click **F6** to toggle between transects 1 and 2.

Surface Substrates Screen

When *Surface Substrate* is highlighted, click ENTER or screen-click on the button, or click number 1 to enter.

7 Coarse Woody Debris

4 Range

1 Surface Substrates

Enter the station number.

Surface Substrate Transect 1

Azm. Obs. Len. Tot. Len.

Station	Type	Limit	Depth
1	DW	2	45
2	BR	2	0

Comments

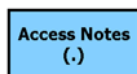
Use the TAB keys to navigate between fields. Click ENTER on *Type* and *Limit* for a menu.

Click **F6** to toggle between transect 1 and 2.

Photos

NOT CURRENTLY AVAILABLE

Access Notes



When *Access Note* is highlighted, click ENTER or screen-click on the button, or click the decimal symbol to open the main screen.

The cumulative distance traveled since the last start		
Cumul.	Inter.	Comments
0.0	0.0	
2.5	2.5	park at pull out
7.6	5.1	

Reset to 0 F2 Photos F3 Edit F5 Start Track Log F6

Click *Edit* or click **F5** to start or add to access notes.

7 Edit

4 Insert Above

1 Insert Below

0 Delete

Select *Edit* to start access notes or edit an existing one or *Insert Above* or *Insert Below* to add an entry.

Cumulative Distance(m) - 2/10

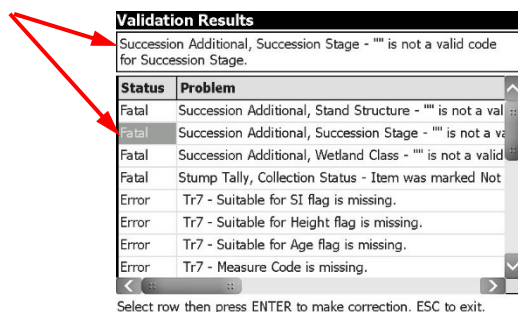
Cumul.	Inter.	
0.0	0.0	U:10 N:4282182 E:0559741
START AT JUNCTION OF COQUIHALLA HIGHWAY		
Reset to 0 F8		

Cumul.:0.0 Inter.:0.0 Comments:AND JUCTION OF ROA...

Click ESC to return to the main *Access Notes* screen.

Validation

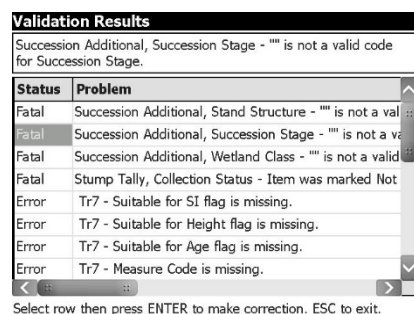
When exiting a data entry screen, a *Validation Results* screen may appear showing a description of errors or warnings about the data in the exited screen. A full description of the selected error is shown in the top screen.



Use ARROW keys to navigate this list and click ENTER to go to the screen containing the error or warning. Or click ESC to skip this screen and address the errors later.

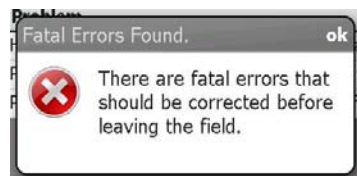
Exiting a Sample

When exiting a sample, the *Validation Results* screen may appear again showing a description of errors or warnings about the data in the exited screen.



Use ARROW keys to navigate this list and click ENTER to go to the screen containing the error or warning. Or click ESC to skip this screen and address the errors later.

After clicking ESC, an additional error message may appear indicating fatal errors in the data. Click ENTER or screen click OK to leave the screen and proceed to the *Exit the Sample* screen. To address the error, click OK and click *Stay* in the exit the sample screen.



A screen will appear when exiting a sample prompting the status of the sample.

Exit the sample?

Current Survey Status: Partially Complete

New Survey Status: Partially Complete ▼

Exit
F2

Stay
F5

Click on the *New Survey Status* down arrow to select from a drop-down menu.

New Survey Status: Partially Complete ▼
Partially Complete
Field Complete
Validation - errors
Validation - passed

Remeasurement Samples

PSP, CMI, and NFI remeasurement samples include the previous measurement data. Click **F10** on most screens to toggle between the current and previous measurement. Previous measurement data screens have an orange background.

Current Measurement

Inventory Header

Survey Date: 2/23/20 Tree: Arsenio Serenil
 End Date: 2/25/20
 BEC: MH mm 2 Typical CW Debris: Natalina Varnadci
 Trees: Y Ecology: Natalina Varnadci
 Succ. Int.: Natalina Varnadci
 Stem Map Req. Typical Ecology: Helper:
 Y Ecology: Helper:

Notes To Crew: testing remeasure

F10-Toggle : Previous

Previous Measurement

Notes to the crew for this Site.

Survey Date: 7/14/18 Tree: Alcino Ephnam
 End Date: 7/15/18
 BEC: MH mm 2 Typical CW Debris:
 Trees: Y Ecology:
 Succ. Int.:
 Stem Map Req. Typical Ecology: Helper:
 Y Ecology: Helper:

Notes To Crew:

F10-Toggle : Current

The tree list screens show previous and current measurements on the same view. Previous measurements are shown with a yellow background.

Tree List

29/404 Enter the height to live crown.

Tree	S	Site	SPP	L/D	DBH	A/E	Len	A/E	CC	Ht	Brk
		Sect.	S/F						LC	Toi	
14	1	1	DR	LS	30.7	M	23.1	M	C	13	N
15	1	1	DR	LS	25				C	0	H
15	1	1	DR	LS	31.7	M	22.5	M	C	10	N
16	1	1	DR	LS	29.5				C	0	H
16	1	1	DR	LS	36.8	M	24.1	M	C	13	N
156	1	1	SS	LS	6.1				S	0	H
156	1	1	SS	LS	11.7	M	12.9	M	S	0	N
157	1	1	SS	LS	11.1				S	0	H
157	1	1	SS	LS	16.9	M	13.8	M	S	3	N
158	1	1	SS	LS	6.3						

Res: F11 Near Tree 14 Tree Notes

The tree detail screen shows the measurement the cursor is on when **F5** is clicked. Current measurement screens have a white background and previous measurement screens have an orange background. To change to the previous measurement from the tree details screen click **F8** (previous tree) or **F9** (next tree).

Permanent Sample Plots

PSP's have slightly different *Header* and *Navigation* screens than other sample types. There is also no stump plot feature in PSP's.

Another difference is additional requirements on the *Plot Cluster* screen.

Enter the measurement start date.

Measurement Date
2/29/20

Plot Shape	Plot Radius	Plot Area
CI	17.84	999.86

Small Tree Sub Plot

Radius	Area
5.64	99.93

F10-Toggle : Previous

Additional details are shown for the plot shape, radius, area, and small tree sub plot radius and area.

VRI samples have identical screens to other samples except for the *Plot Cluster* screen and the *Tree Details* options.

Select Fixed or Variable Radius

Plot Type	BAF	PRFc	PRFF	Band
Variable Radius	05.00	0.2236	0.2186	0.4472

☐ Use Dead/Fallen Trees

Aux Plot Spacing: Measure Date:

— IPC Plot

Status:

Plot	Plot Type	Bdr/Split Azimuth	Pin Offset Azim.	Dist.
QTR	BOUNDARY	270		

IPC Plot

N Plot

E Plot

S Plot

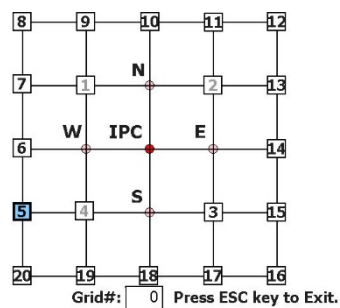
W Plot

The *Plot Cluster* screen includes details about the IPC and each auxiliary plot.

North Plot					
Status		Bdr/Split		Pin Offset	
Grid	Plot	Plot Type	Azimuth	Azim.	Dist.
0	HALF	BOUNDARY	335		
IPC Plot	N Plot	E Plot	S Plot	W Plot	

Complete the status, grid position (if moved), plot (full/half/quarter), plot type (normal, boundary/split), boundary/split azimuth, and pin offset details for the IPC and each auxiliary plot.

Click on *Grid* and tab through the grid options available. Click ESC on the first occurrence that can be sampled. The selected position is transferred to the *Plot Cluster* screen for the plot.



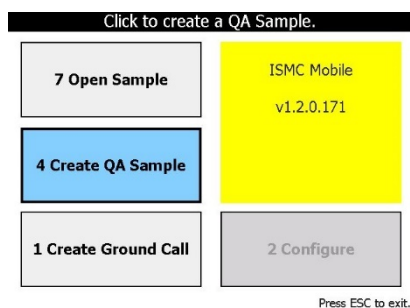
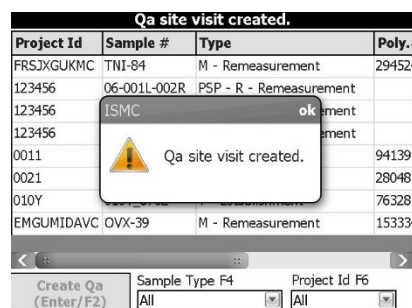
Click the *Tree Details* button lists select the IPC or auxiliary plots.

Trees Details

7 Center
4 North
1 East
0 South
8 West

Quality Assurance Samples

Create a QA sample from the main screen when *Create a QA Sample* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter. Select a sample for QA and click **F2**. Once the QA sample is created, return to the sample menu and open the QA version of the sample.



QA samples appear like remeasurement samples and include the original measurement data. Click **F10** on most screens to toggle between the QA and original measurement. The tree list screens show original and QA measurements on the same view. Original measurements are shown with a yellow background. From the tree details screen click **F8** (previous tree) or **F9** (next tree).

Ground Calls

Create a ground call from the main screen when *Create Ground Call* is highlighted, click ENTER or screen-click on the button, or click number 1 to enter.

Create ground call site from the project list..

7 Open Sample	ISMC Mobile v1.2.0.171
4 Create QA Sample	
1 Create Ground Call	2 Configure

Press ESC to exit.

Select a *Ground Call Project*. Use the TAB keys to navigate between fields. Screen-click ENTER on *Site Purpose* to change the selection. Enter a *Call* name/number and click *Create*.

Enter the call identifier.

Ground Call Projects	Site Purpose
Project	☐ XGO
2017_MERRITT	☒ XG
	Call
	<input type="text" value="00"/>
Create	Cancel

At the main screen, select *Open Sample* or click 7 to select a sample to create a ground call.

Create ground call site from the project list..

7 Open Sample	ISMC Mobile v1.2.0.171
4 Create QA Sample	
1 Create Ground Call	2 Configure

Press ESC to exit.

Select *Open Sample* or press 7 to open the sample list. Scroll to the sample and click **F2** or press ENTER.

Open a sample.			
Project Id	Sample #	Type	Mst
0032	1300496	F - Remeasurement	2
2019	7000002	M - Establishment	1
69-049	4045280	PSP - G - Establishment	1
CMI2	1458861	F - Establishment	1
CMI3	1410756	F - Establishment	1
CMI	1111113	Q - Establishment	1
69-049	4045280	PSP - G - Establishment	1
2017_MERRITT	1234567	XG - Establishment	1
CMI3	1410756	F - Establishment	1
<div> <div>Open (Enter/F2)</div> <div>Sample Type F4</div> <div>Project Id F6</div> <div>All</div> <div>All</div> </div>			

When the sample is opened, the main menu screen will show the sample menu buttons. Screen-click, TAB, ARROW key, or enter the number of the button on the menu to open the main sample screen.

Home
Header Forms 7
Trees Details 4
Ground Call 1

Header Forms

Header Forms 7

When *Header* is highlighted, click ENTER or screen-click on the button, or click number 2 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.

7 Header
1 Plot Cluster

Header Screen

When *Header* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Enter N:Northing E:Eastng z:Elevation u:Utm			
Start Date:	2/24/20	Tree:	Aixa Romon
Location:	Coast	Helper:	Indio Westhouse
		Helper:	
Bearing, Dist to First Point:	Azim: 45	Dist: 65.0	GPS Type:
Actual IPC GPS Coordinates:	Not Set		
Comments:	ground call note		

Ground Call



When *Ground Call* is highlighted, click ENTER or screen-click on the button, or click number 1 for a pop-up menu. Use ARROW keys to navigate and click ENTER or screen-click on the menu item to open the data fields.



Ecology Screen

When *Ecology* is highlighted, click ENTER or screen-click on the button, or click number 7 to enter.

Enter Cover Percent

Surface Expression Site Position Meso Non-Vegetated Cover
Land Cover Class Modifying Process Category Cover Percent
Shrubs
Height Closure %
Herbs
Cover Type Cover % Bryoid %
Soil
Moisture Nutrient

Use the TAB keys to navigate between fields. Click ENTER on cells for menu options.

Summary Screen

When *Summary* is highlighted, click ENTER or screen-click on the button, or click number 4 to enter.

Enter

Snags Basal Area Density

Lyr	Meant Type	1 Sp.	%	Age	Ht	2 Sp.	%	Age	Ht
1	Calculated								
1	Ocular								
2	Calculated								
2	Ocular								
3	Calculated	S	50	0	26.70	FDC	50	0	22.70
3	Ocular								
4	Calculated								
4	Ocular								
5	Calculated								

Use the TAB keys to navigate between fields. Click ENTER on *Sp.* for menu options.

Validation

This section is for Base Station validation. Validation errors, warning, and information are the same on the EFR, but only Base Station allows for addition problem descriptions, acceptance comments, and general comments.

When a sample is selected in Base Station from the top-left screen, the screen on the top-right side shows sample validation results. Three types of validation rule notices are used. **Errors must be corrected before submission to Host.**



Error

Status	Problem	Form	Id	Acc.	Date
	Succession Additional, Stand Structure - "" is not a valid code...	Succession History	SCS022	☐	



Warning

	Tr7 - Measure Code is missing.	Sample Tree	BR198.5	☐	
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Information

	Tr7 - Office Age is required.	Sample Tree	BR267	☐	
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Problem Description

Click on a validation result and the bottom-right screen of Base Station shows validation descriptions and comments about validation exceptions.

Problem Description

Stump Tally, Collection Status - Item was marked Not Collected but data was collected.

Acceptance Comments

Acceptance Comments

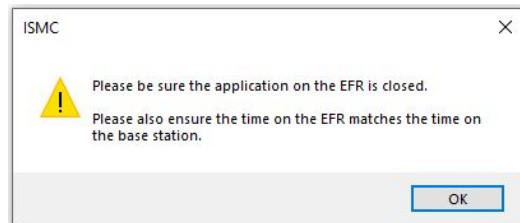
General Comments

General Comments

Managing Sample Data

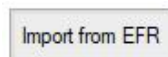
Importing Samples from EFR

The Base Station must be open and the EFR successfully connected by *Windows Mobile Device Center* to the desktop to perform these tasks. **The EFR ISMC application must be closed.**

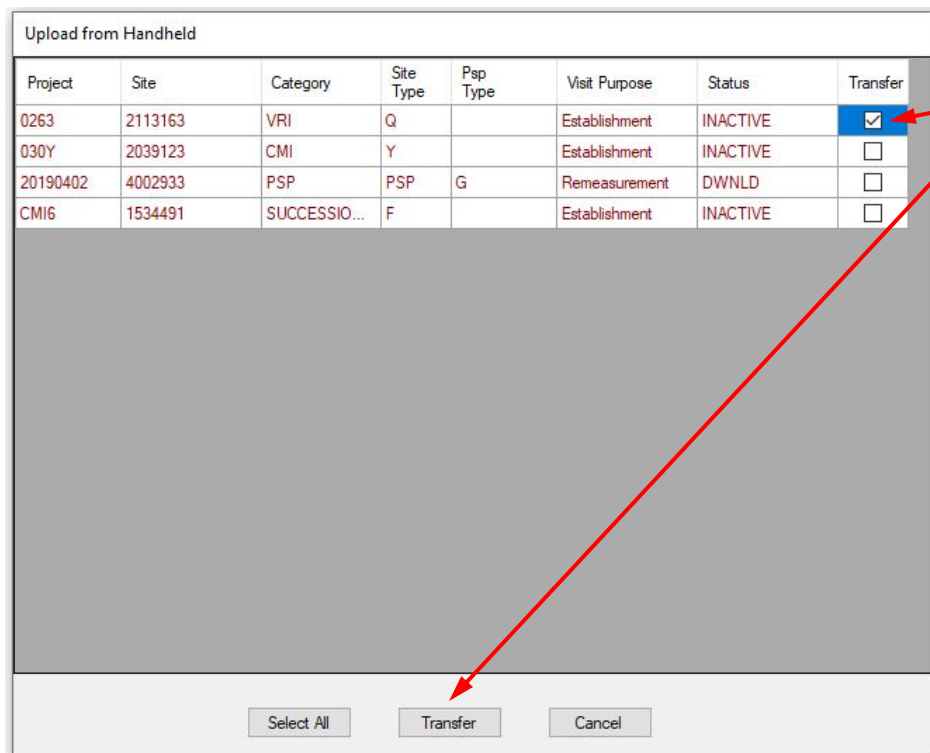


From Base Station:

1. Click on the *Import from EFR* button in the bottom-left corner of Base Station



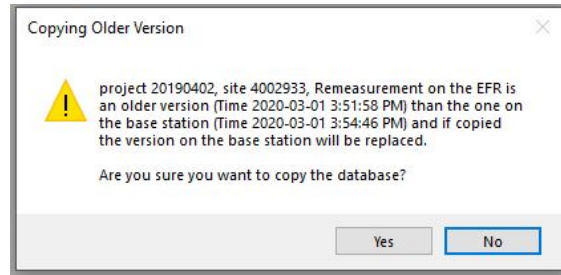
2. When the *Upload from Handheld* window opens, select files (*Project* and *Site*) to upload to Base Station by clicking on the *Transfer* box, or click *Select All* in the bottom left corner of the window, then click the *Transfer* button at the bottom of the window



3. The window closes when the file is transferred

Files that appear in red text are files that already exist in Base Station. Importing files from the EFR will overwrite samples on Base Station.

If a sample is imported from the EFR and its an older version than the one on Base Station, a warning will pop up.

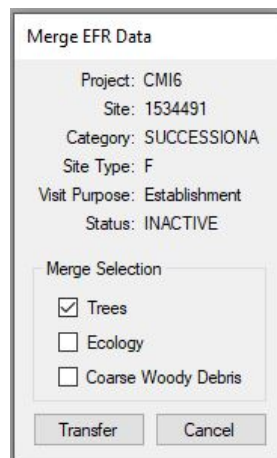


Click *Yes* to continue with the EFR sample transfer, or *No* to cancel the transfer.

Merging Samples from EFR

Type F and O samples can be merged if different samplers collected the trees, ecology, and/or coarse woody debris data.

Follow the directions in *Importing Samples from EFR*. When the *Transfer* button is clicked, a pop-up window will appear prompting the selection of the data to download.



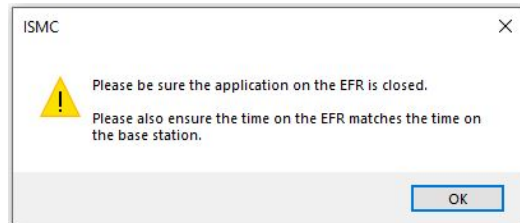
Select the data to import from the EFR, click *Transfer* and the pop-up window will disappear. Click *Transfer* again on the main *Upload from Handheld* window.

The imports of trees, ecology, and coarse woody debris will merge into one sample in Base Station.

Note: *Header and Access Notes* are only attached to *Trees* data.

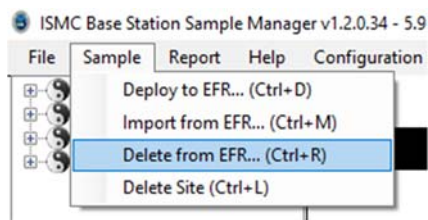
Deleting Samples from EFR

The Base Station must be open and the EFR successfully connected by *Windows Mobile Device Center* to the desktop to perform these tasks. **The EFR ISMC application must be closed.**



From the Base Station:

1. Click on *Sample* then *Delete from EFR* or CTRL+R



2. When the *Delete from Handheld* window opens, select files (*Project* and *Site*) to delete from the EFR by clicking on the *Delete* box, or click *Select All* in the bottom left corner of the window, then click the *Delete* button at the bottom of the window

Delete from Handheld							
Project	Site	Category	Site Type	Psp Type	Visit Purpose	Status	Delete
0263	2113163	VRI	Q		Establishment	INACTIVE	☐
030Y	2039123	CMI	Y		Establishment	INACTIVE	☒
20190402	4002933	PSP	PSP	G	Remeasurement	DWNLD	☐
CMi6	1534491	SUCCESSIO...	F		Establishment	INACTIVE	☐
2017_MER...		GROUNDCELL					☐

Select All
Delete
Cancel

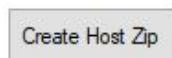
3. The window closes when the file is transferred

Creating a Host Zip

When a sample is complete and all validation errors have been corrected, it can be uploaded to Host.

From Base Station:

1. Click on *Create Host Zip* button in the bottom-left corner of Base Station



2. When the *Upload to Host* window opens, select files (*Project* and *Site*) to upload to Host by clicking on the *Transfer* box, or Select All in the bottom left corner of the window, then click the *Transfer* button at the bottom of the window.

Upload to Host

Project	Site	Category	Site Type	Psp Type	Visit Purpose	Status	Transfer
0263	2113163	VRI	Q		Establishment	INACTIVE	☐
030Y	2039123	CMI	Y		Establishment	INACTIVE	☒
20190402	4002933	PSP	PSP	G	Remeasurement	DWNLD	☐
CM16	1534491	SUCCESSIO...	F		Establishment	INACTIVE	☐

Select All Transfer Cancel

3. The window closes when the file is transferred to a ZIP file.

Uploading a Sample to Host

Samples are uploaded to ISMC Host from your computer after the samples are included in a ZIP file using the *Create Host Zip* function in Base Station.

Log onto ISMC Host: <https://dlvrapps.nrs.gov.bc.ca>

Click on the *Upload Samples* tab.

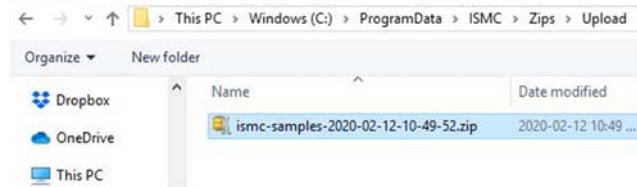


The *Upload Samples* page is used to upload completed samples from a computer to Host.

Upload Samples

Select File

From the *Upload Samples* page, click on *Select File* to open a window of your computer's directories. Navigate to C:\ProgramData\ISM\Zips\Uploads and select a ZIP file to upload.

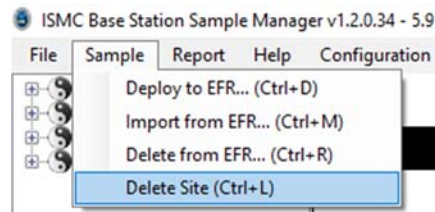


INCOMPLETE – Need compatible data versions

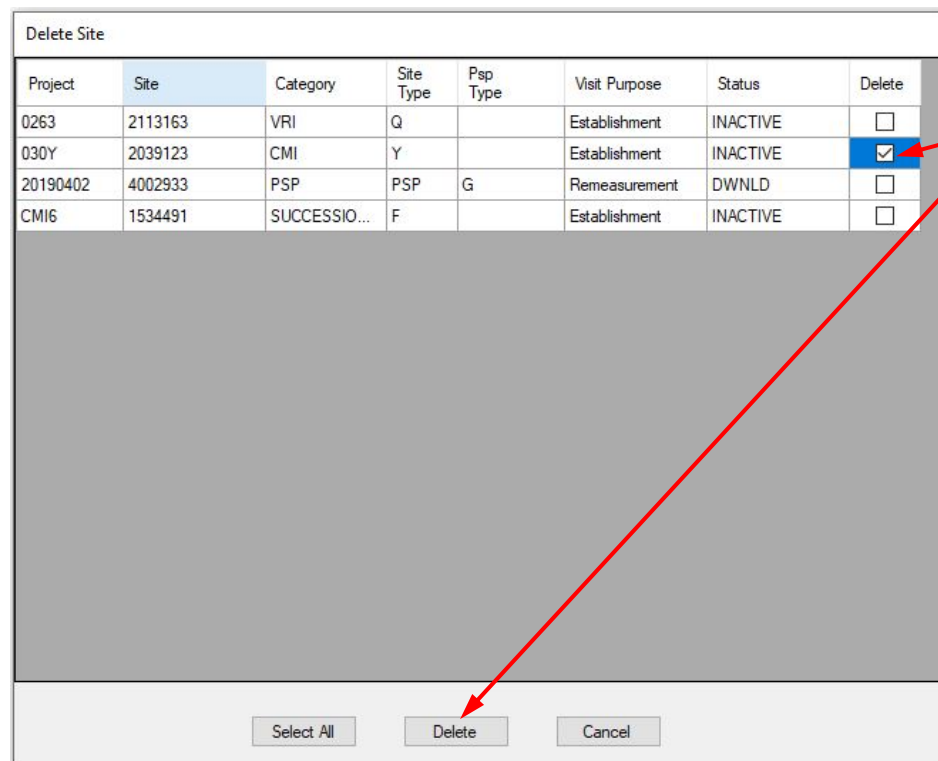
Deleting Samples from Base Station

This function will **permanently delete** a sample from Base Station.

1. Click on *Sample* then *Delete Site* or CTRL+L



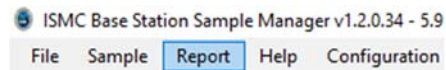
2. When the *Delete Site* window opens, select files (*Project* and *Site*) to delete from Base Station by clicking on the *Delete* box, or click *Select All*, then click the *Delete* button at the bottom of the window.



3. The window closes when the file is deleted.

Reports

Reports can be generated in Base Station by sample or a batch of samples uploaded into Base Station. Click on *Report* in the upper left menu options for the report window.



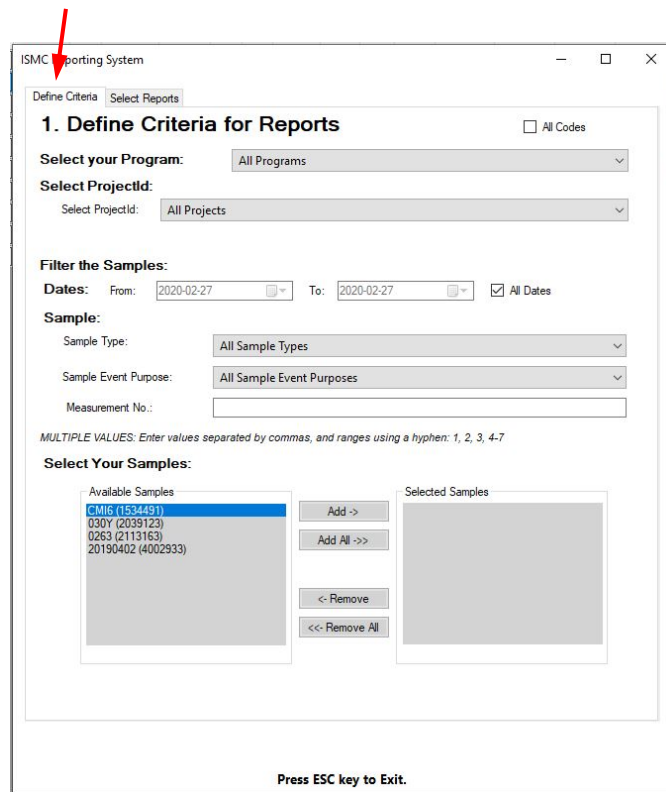
Steps to create reports.

1. Define criteria
2. Select reports
3. Select output method

Define Criteria

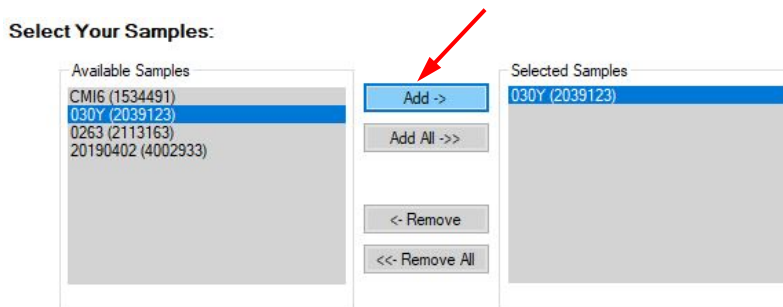
A pop-up window to define the criteria for reports will open. You can define the program, project ID, sample type, sample purpose, measurement number, and individual sample(s) to generate reports.

Define Criteria:



When criteria for reports has been defined, select samples to generate reports.

Click on available samples on the left screen and click *Add* to copy them to the selected samples on the right screen.



Select Reports

Click on the *Select Reports* tab on the reports window to select the report types.

Select Reports:

2. Select Reports

Report Name

- ☒ All Reports by Sample Type
- ☐ Individual Reports
- ☐ All Reports
- ☐ Excel Reports

Choose Sorting (not implemented)

- ☐ Sequential by Tree Number
- ☐ Sequential Tree No. within Tagging Section
- ☐ No Sorting

Reports

- Pilot Cluster Report
- Site Navigation Report
- Tree Details Report
- Small Trees and Stumps Report
- Validation Errors Report
- Quality Assurance Report

Buttons: Add to Batch, Add All to Batch

Reports in Batch

- Pilot Cluster Report
- Site Navigation Report
- Tree Details Report
- Small Trees and Stumps Report

To remove a report, select report and click:

Buttons: Remove from Batch, Remove All from Batch

3. Select Output Method

Report Output File Groupings

- ☒ View in Report Viewer
- ☐ Print to Default Printer
- ☐ Single Zip File per Sample
- ☐ Single Zip File Containing All Samples

Buttons: Run Batch

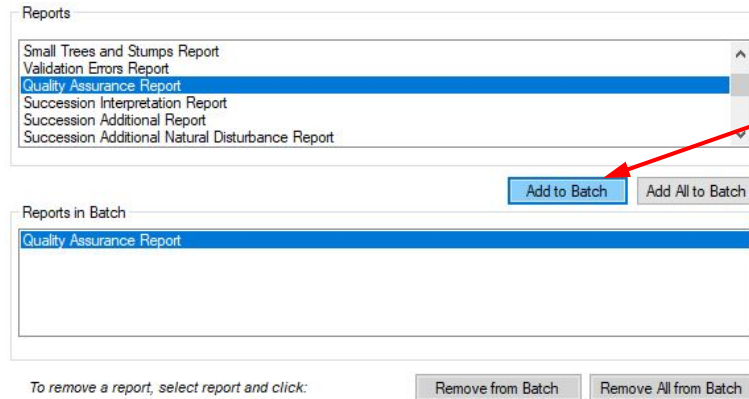
Output Folder:

Filename:

Press ESC key to Exit.

When reports have been selected in the reports window, click *Add to Batch*.

Note: Only the *Tree Details Report* is produced in *Excel Reports* format.



Select Output Method

Reports can be produced in the report viewer in Base Station, printed to your default printer, or saved to your computer in PDF format in a ZIP file.

3. Select Output Method Or

Report Output File Groupings

☐ View in Report Viewer ☐ Single Zip File per Sample
☐ Print to Default Printer ☒ Single Zip File Containing All Samples

Output Folder:

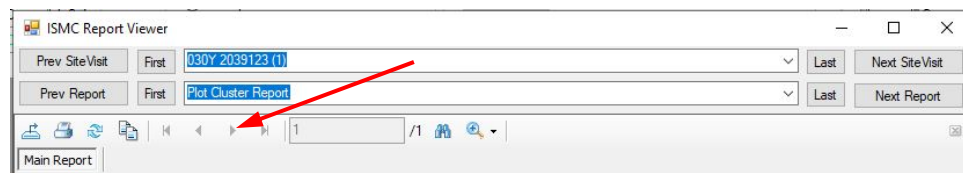
Filename:

Report Output Options:

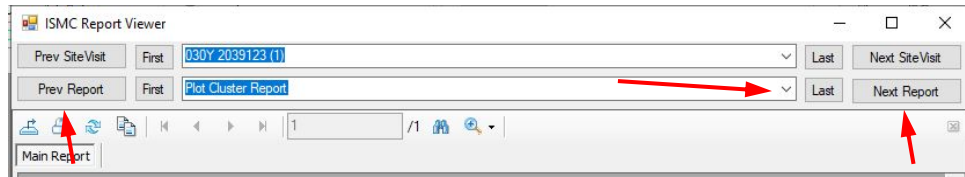
1. View in ISMC Report Viewer
2. Print to your computer's default printer
3. Produce PDF's in a single ZIP file per sample
4. Produce PDF's in a single ZIP file for all samples

Report Viewer

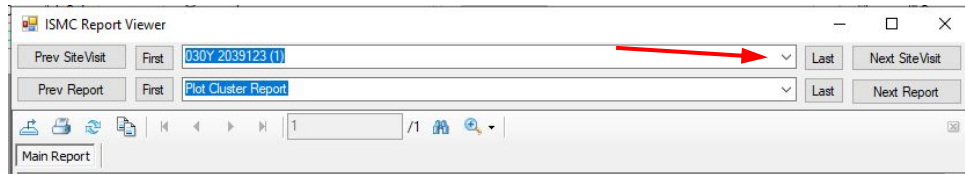
Reports can be viewed in the report viewer from Base Station. For multiple page reports in the report viewer, click the right or left arrows in the upper-left corner of the report window to change pages.



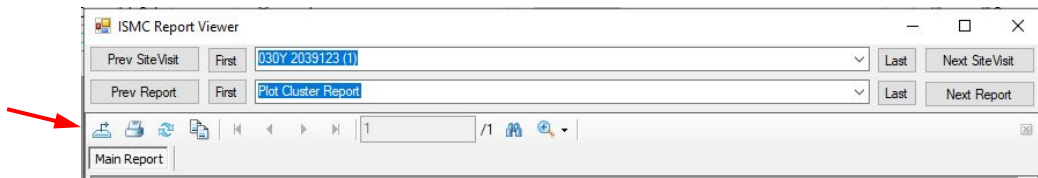
For multiple report types, click on the down arrow to select the report type to view, or click *Next Report* or *Previous Report* to move through the samples for the selected report type.



For multiple samples, click on the down arrow to select the sample to view.

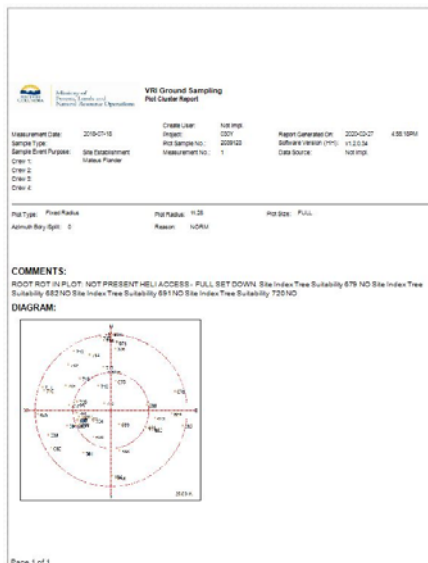
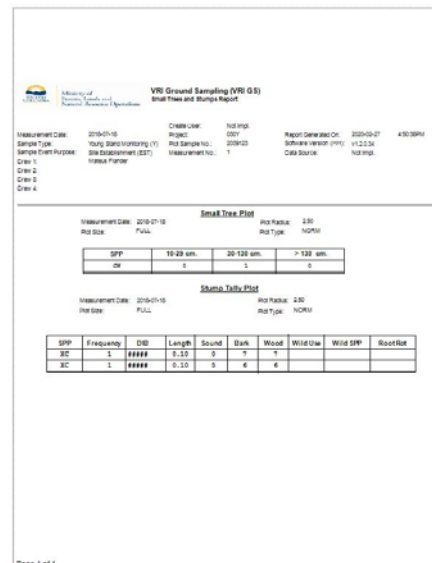


Other features in Report Viewer:



1. Save in RPT format (Crystal Reports)
2. Print to a printer of your choice
3. Refresh reports
4. Copy

Report Format:



How to Report Errors

This application is in Testing, and this means that errors will undoubtedly occur. The procedure to capture errors is to note:

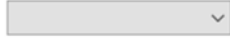
- What measurement type (CMI, NFI, VRI, NFI, PSP, QA, Ground Call)
- Application platform (Base Station, EFR, Host)
- What Screen: (e.g. Tree List)
- What action was being performed: (e.g. hitting the tab button when moving from field A->B)
- A screen shot of the error
- Is the error reproducible?

Appendix

Base Station Quick Navigation Buttons

Keys	Base Station
ESC	Return to previous screen
F1	Form commands and other options
F2	Sample tree suggestion (Sample Trees screen only)
F3	Copy down from cell above – Tree List screen Add tree – Tree Details screen
F4	Move to the next form section (jumps multiple fields at a time)
F5	Switch between Tree List and Detail screens
F6	Toggle between damage, loss, net factor, and stem map cells
F7	<i>Inactive</i>
F8	Previous tree – Tree Details screen
F9	Next tree - Tree Details screen
F10	Toggles between current and previous measurement screen
F11	<i>Inactive</i>
F12	Add a comment to the item the cursor is on or the screen type
Enter	Activate a cell specific tool. E.g. Height calculator for tree height cell
Tab	Move forward (to the right) between data fields
Shift Tab	Move left (backwards) between data fields
Ctrl-A	Stem Map data entry – Tree List screen
Ctrl-D	Download to EFR window
Ctrl-G	Search and go to a tree number - Tree List and Details screens
Ctrl-L	Delete from Base Station window
Ctrl-M	Import from EFR window
Ctrl-N	Insert tree – Tree List screen
Ctrl-R	Delete from EFR window
Ctrl-S	Saves at any time without exiting the screen
Ctrl-F5	Goes to Sample Tree screen
Arrow Keys	Navigating in lists and moving the cursor in cells.
Page Up/Down	Move cursor up or down the screen
End/Home	Moves the cursor to the beginning or end of a row

Base Station Data Field Types

	←	Data field is not highlighted – can't be edited
	←	Data field is highlighted – can be edited
	←	Drop-down box – mouse-click to open
	←	Click to copy data to the next field(s)
	←	Tree details – data field is not highlighted – can't be edited
	←	Tree details – data field is highlighted – can be edited
	←	Purple line indicates pop-up list – click ENTER to open
	←	Dashed line inside box indicates drop-down list – click ENTER to open
	←	Data entry field – no pop-up or drop-down list
Typical Trees: 	←	Click ENTER to toggle options

EFR Quick Navigation Keys

MAIN SCREENS

F1	Form Commands	All	Leads to other options, shows F commands
F2	<i>Inactive</i>		
F3	Copy Down	List Screens	Copies down the data from the row above.
F4	Next Section	Trees	Jumps forward/back over sections on Tree List and Tree Detail screens
F5	Toggle Tree View	Trees	Move forward/back from Tree List to Tree Detail screens
F6	Toggle Tree Lists	Trees	Move forward/back through tree, damage, loss and net factor views
F7	<i>Inactive</i>		
F8	<i>Inactive</i>		
F9	<i>Inactive</i>		
F10	History View (remeasure)	Most Forms	Toggles to 'previous' data for that screen
F11	<i>Inactive</i>		
F12	Comments	Most Forms	Add a comment to the data view you currently see
[ENTER]	Enter/Activate Cell	All	
[TAB]	Next Cell	All	
CTRL-F5	Sample Tree	Trees	Toggles back and forth between Sample Tree and Tree List
CTRL-A	Stem Map Only	Tree List	Locks screen for azimuth and distance only
CTRL-G	"Go To"	Trees	Search and go to a tree number in a list of trees
CTRL-L	Delete Row/Tree	Any List	Deletes the current row you are on
CTRL-N	Insert Row/Tree	Any List	Inserts a row after the current one you are on
CTRL-S	Save	Trees	Saves at any time without exiting the screen
CTRL-.	Hotkey	Trees	Press to select default value as follows: Live/Dead/Standing/Fallen = L/S Measured/Estimated (DBH) = M Remaining bark = 100% Measured/Estimated (ht) = M Broken Top = No NF% = 100
[SPACE]	Drop-down Lists	Any List	Opens box drop-down lists (e.g. L/S/D/F, M/E, CC)
[ZERO]	Edit Alpha Cells	Any List	Allows editing in alpha cells; cursor enters cell

TREE DETAILS SCREEN

Same as 'MAIN SCREEN' except

F8 (SHIFT-F2)	Previous Tree	Details	Moves from current tree to previous in list
F9 (SHIFT-F3)	Next Tree	Details	Moves from current tree to next in list
F3	Add Tree	Details	Adds a tree; highest tree number +1
F9, F11, CTRL-A, D, I		Details	<i>Inactive</i>

SAMPLE TREE

F2	Suggest Samples	Sample Tree	Sample tree screen shows trees identified as sample trees. F2 shows additional suggestions
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STUMP SCREEN

[ENTER]	Add Tree in Frq.	Stump	Add a tree for each [enter] in the frequency cell
[SPACE]	Delete Tree in Frq.	Stump	Delete a tree for each [space] in the frequency cell

SMALL TREE SCREEN

F7	10-29cm Column	Sm. Tree	Goes to 10-29cm column on current row
F8	30-130cm Column	Sm. Tree	Goes to 30-130cm column on current row
F9	>130cm Column	Sm. Tree	Goes to >130cm column on current row
F6	Toggles Add/remove	Sm. Tree	F6 changes ENTER to subtract or add by 1
[ENTER]	Add Tree to Cell	Sm. Tree	Adds tree(s) to the current cell
[BACKSP]	Deletes Trees in Cell	Sm. Tree	Deletes tree(s) in the current cell

ACCESS SCREEN

F2	Reset Row to 0	Access	Resets current row cum. and inter. distance to 0
F3	<i>Photos (inactive)</i>	Access	<i>Inactive</i>
F5	Edit Row	Access	Opens row edit pop-up screen options
F6	<i>Track Log (inactive)</i>	Access	<i>Inactive</i>
F8	Reset to 0	Access	Reset to 0 from Edit screen

TREE SHRUB HERB MOSS

F5	Toggle Screen	TreeShr	Toggles between Tree/Shrub and Herb/Moss screen
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TRANSECTS

F6	Toggle Screen	Transect	Toggles between transect 1 and 2 for each transect type
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EFR Keypad (Allegro2)

