Edge2 V11.5 Release Note

2026/03/10

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Edge2 v11.5 Update item

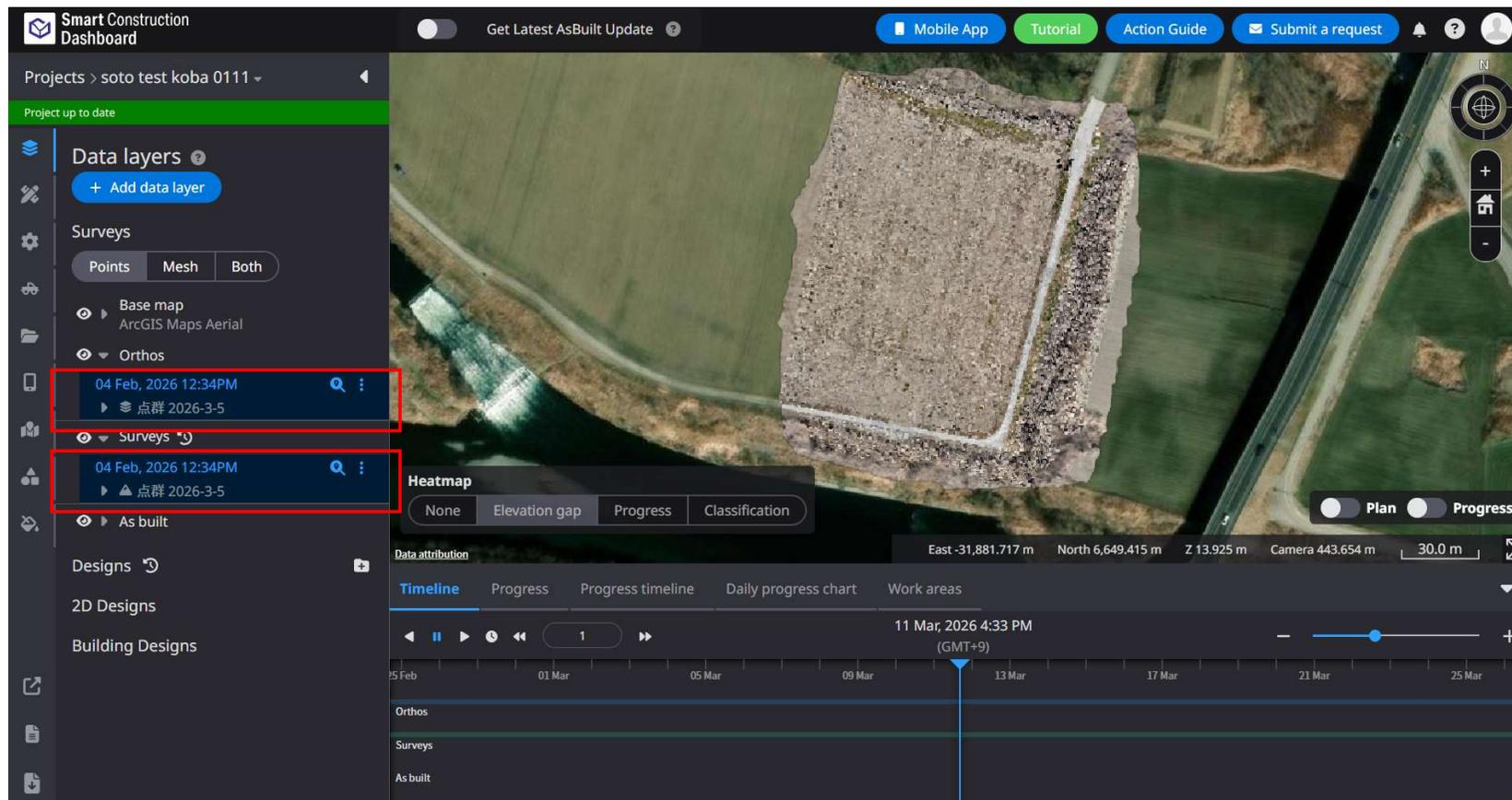| Category	Development items	Contents/Use case	UI Image
New feature /Performance Improvement	Update i-Construction Report.	Relevant only to the Japanese market.	None
	Automatic upload and automatic registration of point cloud data, etc. to the SC Dashboard	Extend Edge2's automatic upload function to enable automatic registration of point cloud data, etc. to the Dashboard. Since Cloud-SFM supports automatic registration, Edge2 will also be updated to support this feature. In v11, this will be supported as a standalone function in Edge2. Support for cases where Cloud-SFM is triggered from Edge is planned for v12 or later.	P4-5
	EDGE2 App Certificate Support	If the Edge2 firmware is used without being updated, a certificate error may occur due to the expiration of the server certificate, which can prevent the Edge2 application from launching properly. However, by updating to Version 11, the server certificate is automatically renewed at startup (network connection required), thereby preventing application startup issues caused by an expired certificate.	None
	Fix Wording	Revised some messages and error texts displayed on Edge2.	None

Category	Development items	Contents/Use case	UI Image
New feature /Performance Improvement	Cloud SfM Credit Consumption Message	Added a feature to display a notification informing users that Cloud SfM will be used (i.e., credits will be consumed) when uploading photo data from Edge2 to Cloud SfM. (This message is displayed only for customers with an active Cloud SfM contract.)	None
	Support for External GNSS Antenna	To use an external antenna, a separate optional hardware modification is required. For more details, please contact EarthBrain Customer Support.	P6-7
	Improved 3D Algorithm Performance	Expanded Maximum Supported Area	P8

Automatic upload and automatic registration

In V11, when automatic upload is performed from Edge2, the data is automatically registered to the SC Dashboard.
By default, point cloud data (with object removal) and orthophotos are registered.
The priority registration settings can be changed.

In the settings screen, when "Select which output you want to display on Smart Construction Dashboard in the point cloud settings screen" is set to ON, you can select the "priority registration Target." If it is set to OFF, it will not be displayed.

When the setting is turned **ON**, you can select the data to be prioritized for registration from the following four options:

・Point Cloud
・Point Cloud (Object Removed)
・DSM
・DTM

Separate from these four options, orthophoto registration and upload will be performed automatically once the orthophoto is generated.
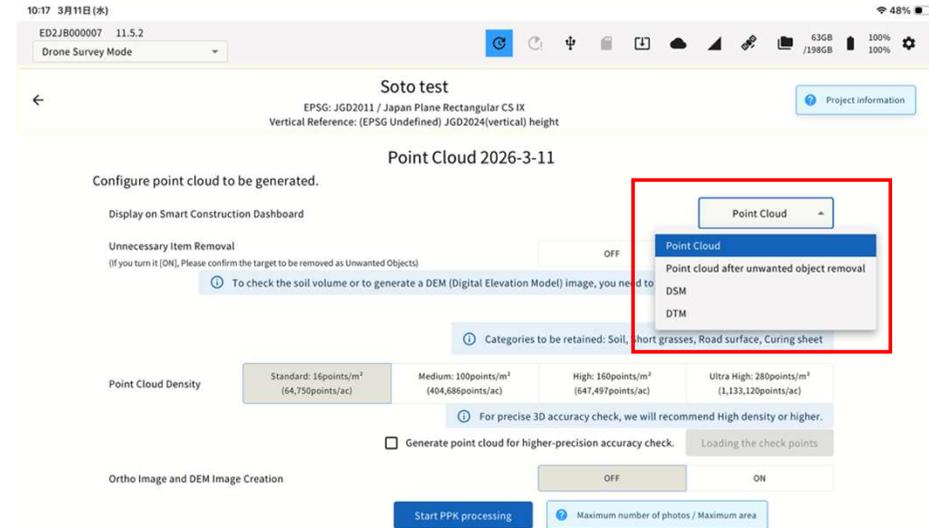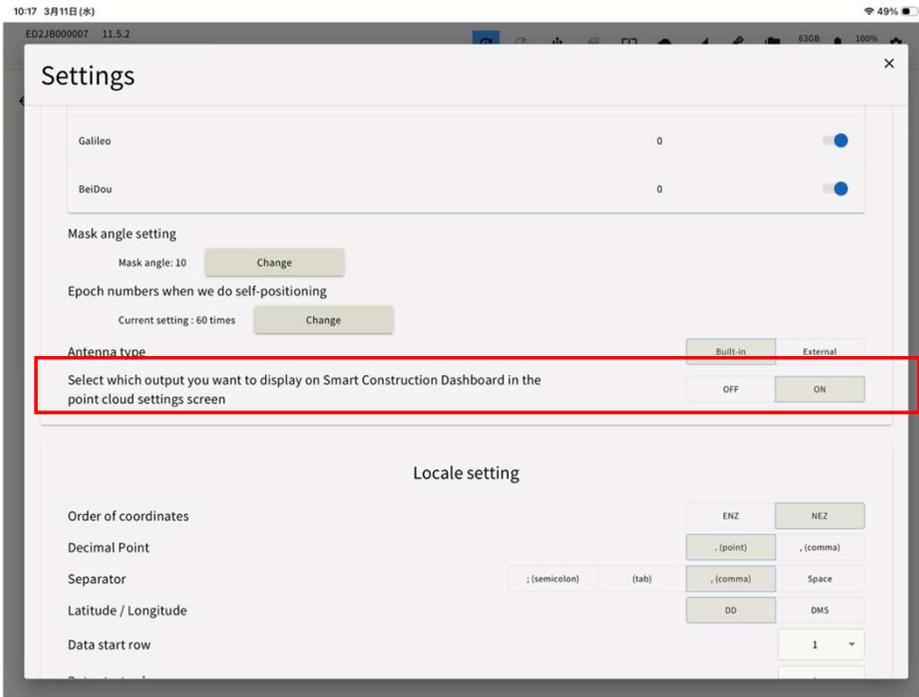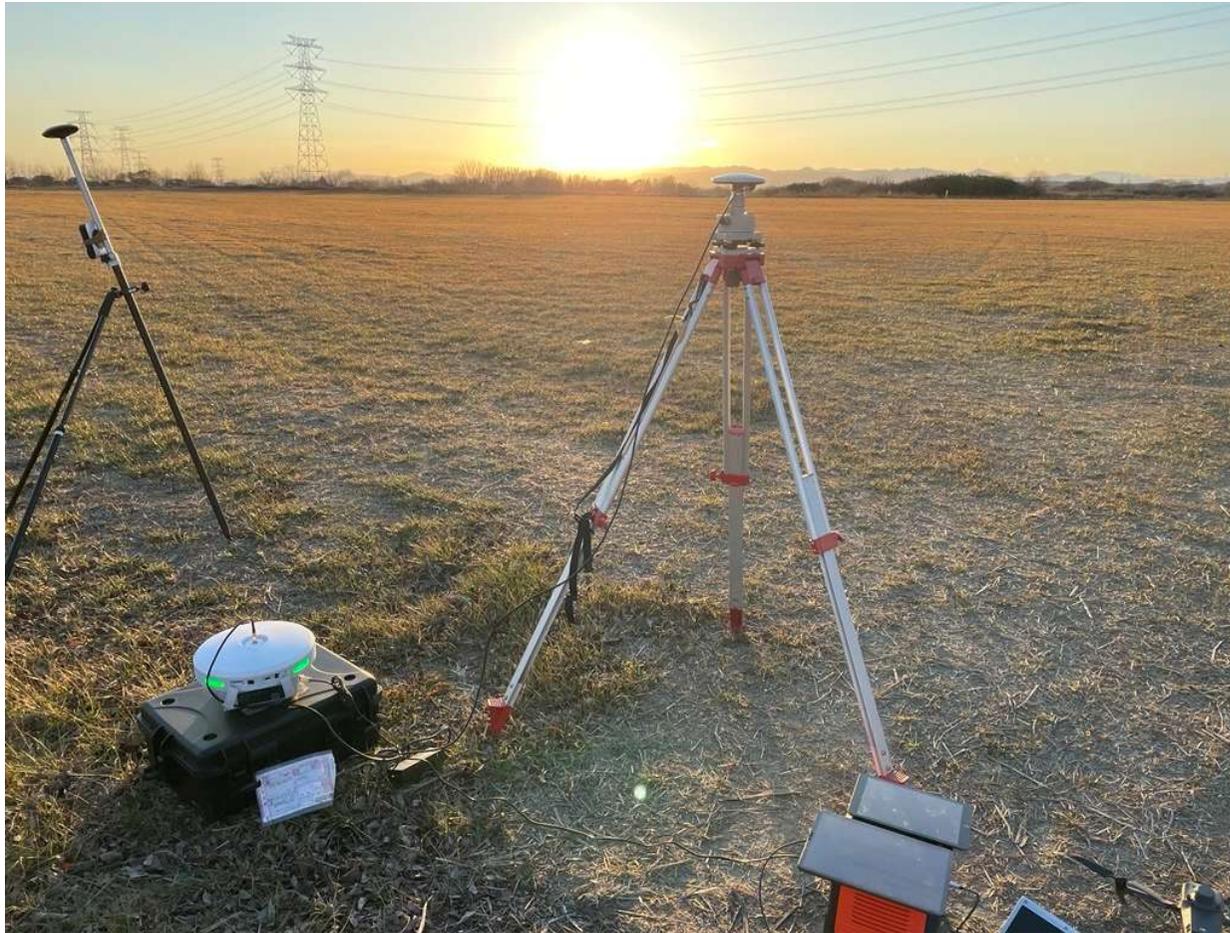
Starting from Version 11, by performing an optional hardware modification (such as coaxial cable connection processing), it is possible to connect a designated external antenna and operate the Edge unit indoors. For more details, please contact EarthBrain Customer Support.
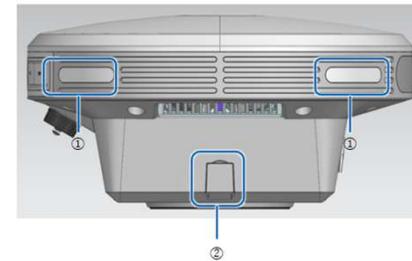
If you are using an external antenna, please select **"External."**
If you are not using an external antenna, please do not change this setting.
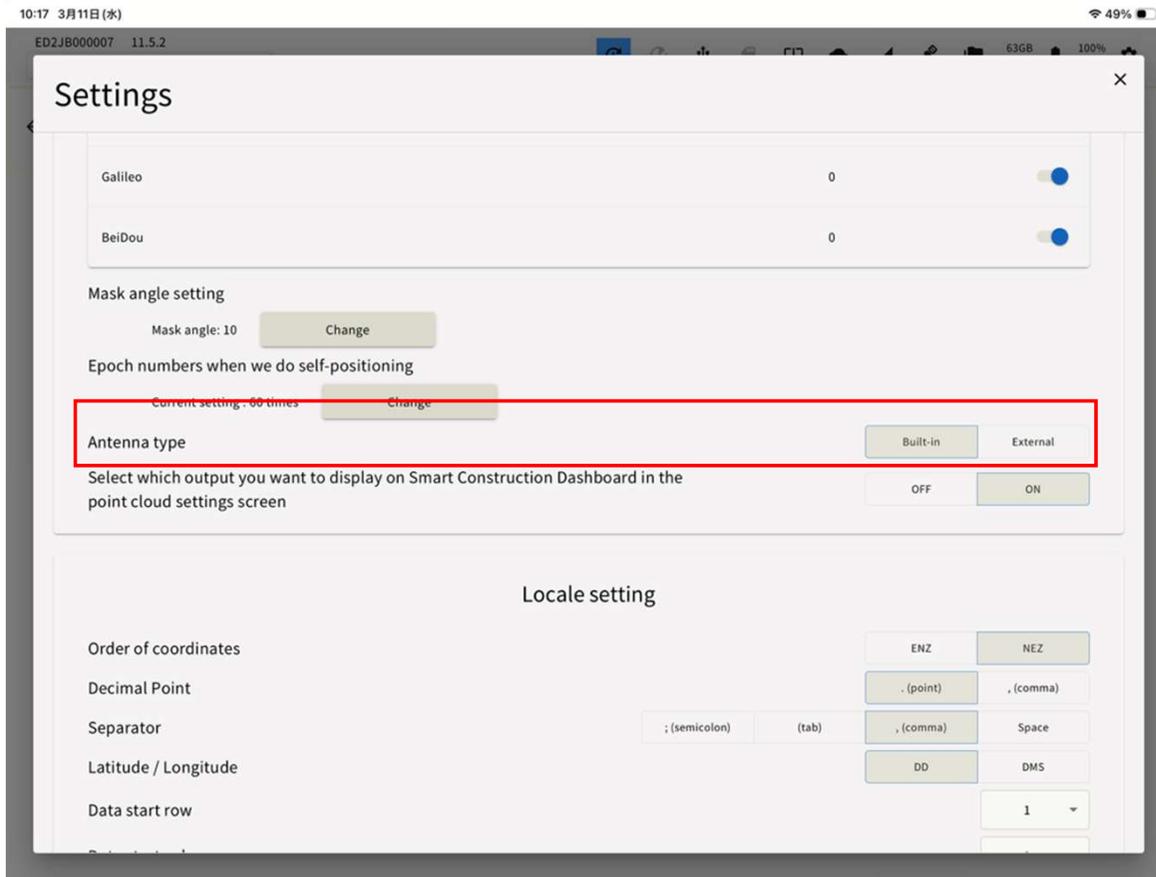
As shown below, at **160 points/m²**, the processing area and the number of processable images have increased.

■ Area-Based

Density	Condition	Point Cloud + Ortho + Object Removal	Point Cloud + Ortho	Point Cloud + Object Removal	Point Cloud Only
280 points/m²		5 ha	5 ha	10 ha	10 ha
160 points/m²		9 ha → 15 ha	9 ha → 15 ha	18 ha	18 ha
100 points/m²		15 ha	15 ha	30 ha	30 ha
16 points/m²		50 ha	50 ha	50 ha	50 ha

■ Image Count-Based

Density	Condition	Point Cloud + Ortho + Object Removal	Point Cloud + Ortho	Point Cloud + Object Removal	Point Cloud Only
280 points/m²		500 images	500 images	1000 images	1000 images
160 points/m²		937 images → 1500 images	937 images → 1500 images	1875 images	1875 images
100 points/m²		1500 images	1500 images	3000 images	3000 images
16 points/m²		5000 images	5000 images	5000 images	5000 images

Edge2 v11.5 Update Procedure

■■v11RC 1

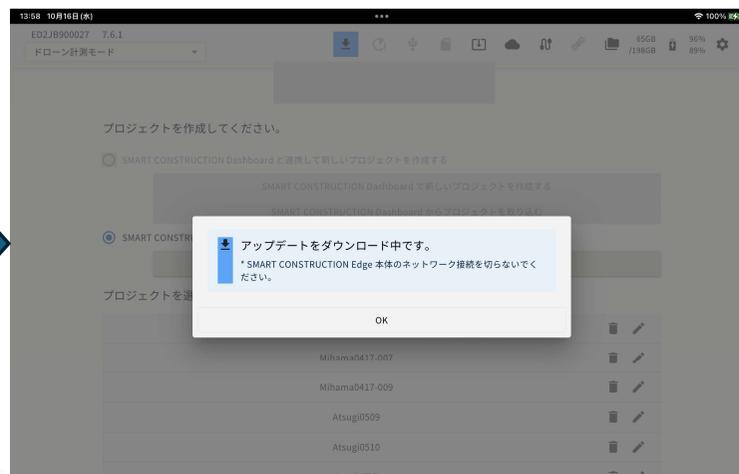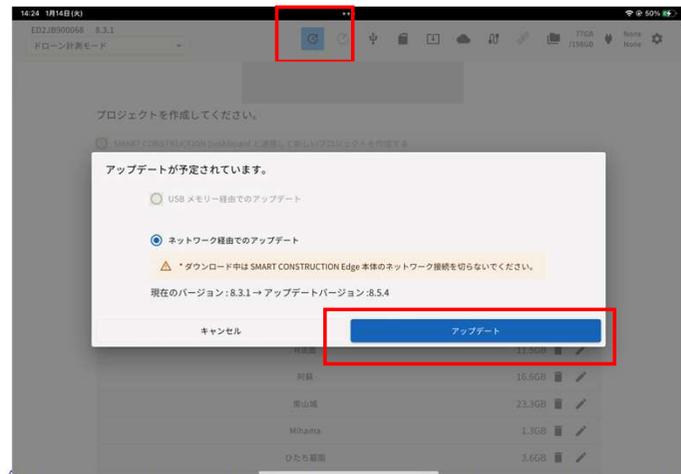OTA名称："11.5.2"
FW VERSION : "11.5.2"
OS VERSION : "7.3.2"

*We recommend updating your iPad's OS to iOS 18.7.2 or later.
※ iPadOS Version 26 series ("Liquid Glass" design) is not supported.
Please do not perform the update via the iPadOS update notification.

In a good network environment, such as a wired LAN connection, it will take approximately 30 minutes.
For LTE, it may take 1 hour or more.
By good internet connection, we mean a downstream speed of around 50Mbps.
If the internet connection is poor, the update may take around 3 to 4 hours, and in some cases, considerably longer.

<Update procedure for v7 and later>

- After the update files have finished downloading over the network, press the restart button.

- When the green LED stops flashing and stays lit, the update, including the OS, is complete.

If you are performing the update via USB, please refer to this. https://support.smartconstruction.com/hc/en-jp

Background: Defects Related to Battery Charging
There have been several instances where the battery could not be recharged. To address this, we will update the battery control microcontroller. The upgrade process will proceed as follows:
1.The application will be downloaded as usual.
2.After the download is complete (indicated by an orange arrow), please turn the power OFF and then ON.
3.The OS download will begin.
   • Once the OS download is complete, a pop-up window will appear on the right.
4.When the AC adapter is connected and the restart button is pressed, the red LED on the 4-way indicator will light up temporarily. Please wait for the process to finish.
   • When the power turns off, restart as usual to complete the update.
Important Notes:
•If AC power is not connected during step 4, please turn the power off and on as usual. However, the sub-microcontroller will not be updated in this case.
•The sub-microcontroller update will occur when the power is turned off after AC power has been connected while the device is on.

※For versions earlier than v6, the update notification will not be displayed, and a two-step update is required. Please take note.

Ready to update.
Please restart SMART CONSTRUCTION Edge immediately.

* Connect the AC adopter during the update.
* Do not turn off SMART CONSTRUCTION Edge during the update.
* Update takes around 5 minutes.
* If the Error/Update LED at front of the main body was lit solid, then do not turn off the power.

If you turn on the unit next time and the unit was connected to the internet, application will be updated.

Reboot later   Restart