



Trimble EDB10 Empower Data Bridge

USER GUIDE

Model: 121132

Version 1.00

Revision A

April 2021

<https://geospatial.trimble.com/>

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Recycling information

You should dispose of the EDB10 and accessories properly according to local laws and regulations. Because the EDB10 contains electronic components, it must be disposed of separately from household waste. When the EDB10 reaches its end of life, contact your local Trimble reseller to learn about disposal and recycling options for your area.

Recycling in Europe

The symbol at right means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



For information about recycling Trimble WEEE (Waste Electrical and Electronic Equipment) products that run on electrical power go to http://www.trimble.com/Corporate/Environmental_Compliance.aspx.

To recycle Trimble WEEE products call +31 497 53 24 30, and ask for the "WEEE Associate". or mail a request for recycling instructions to:

Trimble Europe B.V. & Trimble International B.V.
Industrieweg 187a

5683 CC Best
The Netherlands

Taiwan – Battery Recycling Requirements

The product contains a Lithium-ion battery. Taiwanese regulations require that waste batteries are recycled.

廢電池請回收



Regional compliance

Australia and New Zealand

This product conforms with the regulatory requirements of the Australian Communications and Media Authority (ACMA) Telecommunications, Radiocommunications and EMC Labelling Notices, thus satisfying the requirements for RCM marking and sale within Australia and New Zealand.



Europe

This device complies with Directive 2014/53/EU (RED) issued by the Commission of the European Community. For more information please refer to the Declaration of Conformity.

A minimum separation distance of 20cm must be maintained between the user's body and the device.

Frequency bands and powers

a. Frequency band(s) in which the radio equipment operates;

Bluetooth 2.1 + EDR 2.4GHz

WLAN IEEE 802.11b/g/n 2.4 GHz

b. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates;

Bluetooth 2.1 _ EDR 8.5dBm GFSK RF TX output Power @ 2.4GHz

WLAN 11 Mbps DSSS (b) TX Output Power 17.5 dBm @ 2.4 GHz

WLAN 54 Mbps OFDM (g) TX Output Power 14 dBm @ 2.4 GHz

WLAN MCS0 OFDM (n) TX Output Power 12.5 dBm @ 2.4 GHz

Components and accessories

Accessories and components including software which allow the radio equipment to operate as intended.

Manufacturers only have to describe those accessories and components including software if they: - have an influence on the conformity of the radio equipment, and

- are intended to be installed or changed by the user without the control of the manufacturer.

The instructions shall also include information required as above.

Accessories example:

If the radio equipment is delivered without an antenna, then the technical features of the antenna that may be used in conjunction with the radio equipment shall be provided to the user. This information could be the generic characteristics of a given antenna type or a reference to a specific antenna(s) available on the market.

Operating temperature: -20°C to +60°C

Battery and safety info XXXXX

Supplementary information

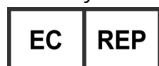
In addition, the product is battery powered and the power supply provided with this product has been certified to IEC 60950 +A1, A2, A3, A4, A11. As manufacturer, we declare under our sole responsibility that the equipment follows the provisions of the Standards stated above.

Importer of Record

Trimble European Regional Fulfillment Center
Logistics Manager
Trimble Europe B.V. & Trimble International B.V.
Industrieweg 187a
5683 CC Best
The Netherlands

Trimble EC

Trimble Germany
Am Prime Parc 11
65479 Raunheim
Germany



CAUTION: Only approved accessories may be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated and normally restricted to two meters in length. Power supplies approved for this product employ special provisions to avoid radio interference and should not be altered or substituted. Unapproved modifications or operations beyond or in conflict with these instructions for use may void authorization by the authorities to operate the equipment.

Canada

IC ID: 5817A-121132

Industry Canada statement

1 This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: 1) l'appareil ne doit pas produire de brouillage, et 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2 This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

3 This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference

Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible

4 This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios

Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.

5 The County Code Selection feature is disabled for products marketed in the U.S./ Canada.

La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Cet émetteur radio (identifier l'appareil par numéro de certification) a été approuvé par l'industrie Canada pour fonctionner avec les types d'antenne

énumérés ci-dessous avec le gain maximum admissible indiqué. Types d'antennes non inclus dans cette liste, ayant un gain supérieur au gain maximum indiqué pour cette type, sont strictement interdits pour une utilisation avec cet appareil.

Avertissement:

- i. les dispositifs fonctionnant dans la bande de 5 150 à 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux ii. pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de la p.i.r.e;
- iii. Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
- iv. lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués. <for 5G B2 with DFS band, EIRP > 200 mW>

U.S.

FCC ID: S9E-121132

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: The country code selection is for non-U.S. model only and is not available to all U.S. model. Per FCC regulation, all Wi-Fi products marketed in the U.S. must be fixed to U.S. operation channels only.

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Product Limited Warranty

Subject to the terms and conditions set forth herein, Trimble Inc. ("Trimble") warrants that for a period of two (2) years from date of purchase this Trimble product (the "Product") will substantially conform to Trimble's publicly available specifications for the Product and that the hardware and any storage media components of the Product will be substantially free from defects in materials and workmanship.

Product Software

Product software, whether built into hardware circuitry as firmware, provided as a standalone computer software product, embedded in flash memory, or stored on magnetic or other media, is licensed solely for use with or as an integral part of the

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How to Obtain Warranty Service

To obtain warranty service for the Product, it is recommended you contact your Trimble dealer. Alternatively, you may contact Trimble to request warranty service by emailing Repair_Services@Trimble.com. Please be prepared to provide: – your name, address, and telephone numbers;

- product name, part number and serial number;
- proof of purchase;
- an explanation of the problem.

The customer service representative may need additional information from you depending on the nature of the problem.

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Introduction

Trimble EMPOWER is an ecosystem of rugged platform devices along with sensor and communication modules, together creating a host solution targeted at specific workflows. As an example a TSC7 combined with an EM120 radio module creates a controller solution able to connect and communicate with a Trimble Robotic total station.

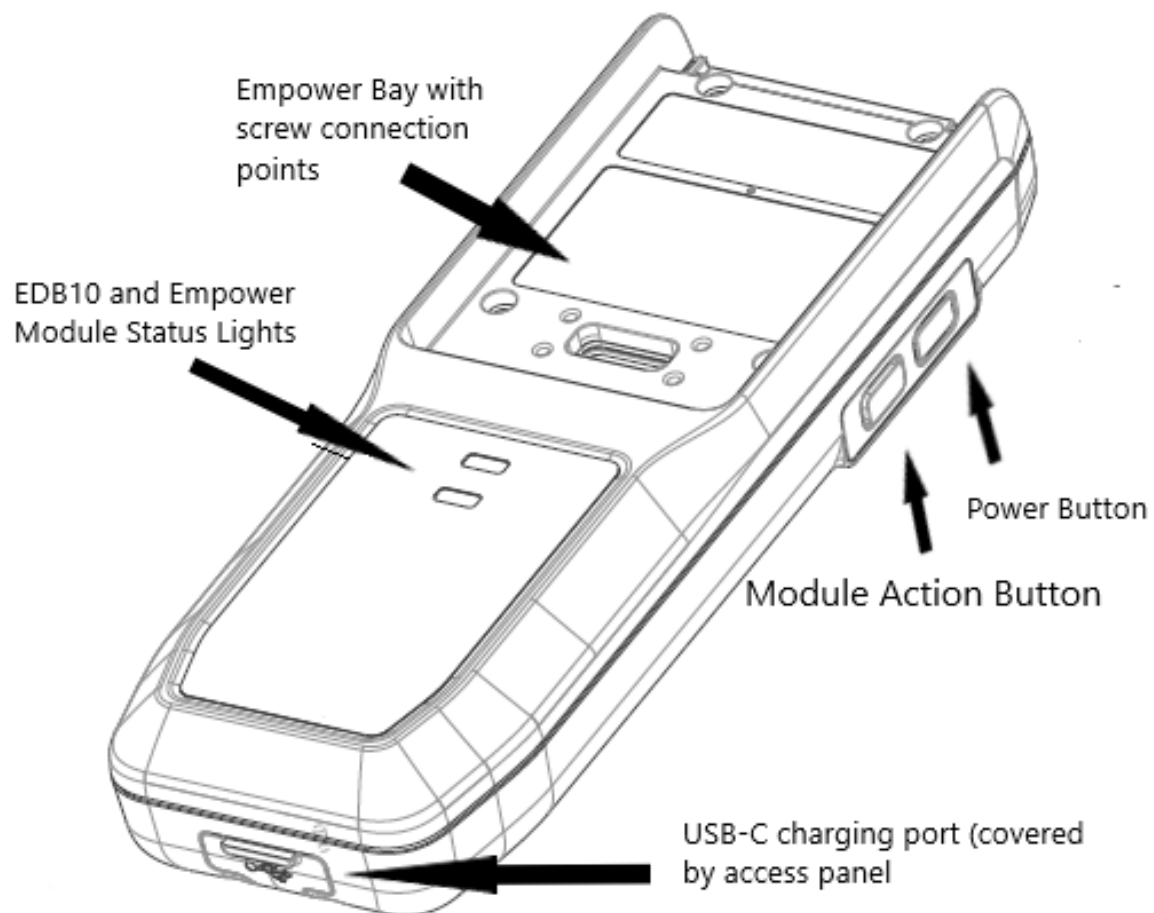
The Trimble Empower Data Bridge (EDB10) is a “sled” that takes the Empower concept further to allow an EMPOWER module to not only be used in EMPOWER hosts (e.g with TSC7) but with a full choice of consumer, prosumer, semi-rugged and fully rugged devices. It allows the EMPOWER ecosystem to extend across more devices and supports Windows, and Android.

The intended use is to connect a controller (without radio), to a Trimble robotic total station as shown below.

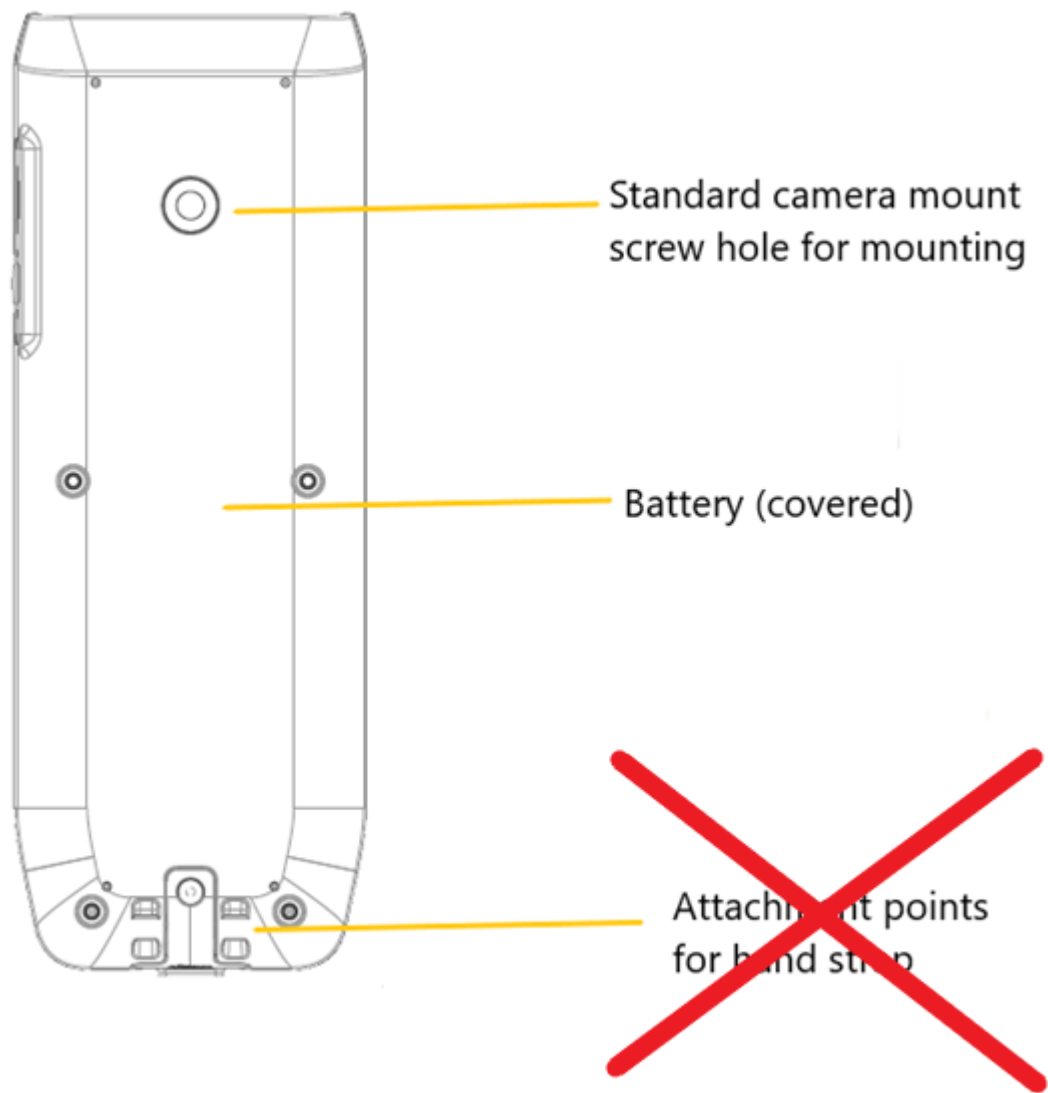


Parts of the EDB10 Data Bridge

Front View



Rear View



What's in the box

- EDB10 data bridge
- USB-C Charging/Firmware cable
- A/C Adapter and International connectors
- Module screwdriver
- Quick Start Guide

Charging Battery

1. Connect the USB Charging cable to the AC adapter, and plug into power.
2. Plug in the EDB10 to the charging cable
3. Charge for six hours or until fully charged.

Connecting EDB10 to an EMPOWER module

1. Before connecting an EDB10 to an Empower Module, please ensure the EDB10 is powered off. Powering on the EDB10 prior to connecting an Empower module may lead to an ability to connect to an instrument, and will require a reset of the EDB10.
2. To connect, align the units together (as shown below) with the Empower Module slightly higher than the EDB10, and slide the Empower module down so the top lip of the Empower module hooks neatly over the top of the EDB10. The bottom of the Empower Module will fit neatly into the cavity of the EDB10 with the bottom edge lying flush against the recess of the EDB10.



The screws on the Empower module will align with the screw holes on the EDB10.

3. Tighten the two screws located using the (provided) Module screwdriver. To prevent damage to the EDB10, do not overtighten the screws. The Empower Module and the EDB10 should form a firm connection.

Button and LED Behavior



EDB10 Buttons



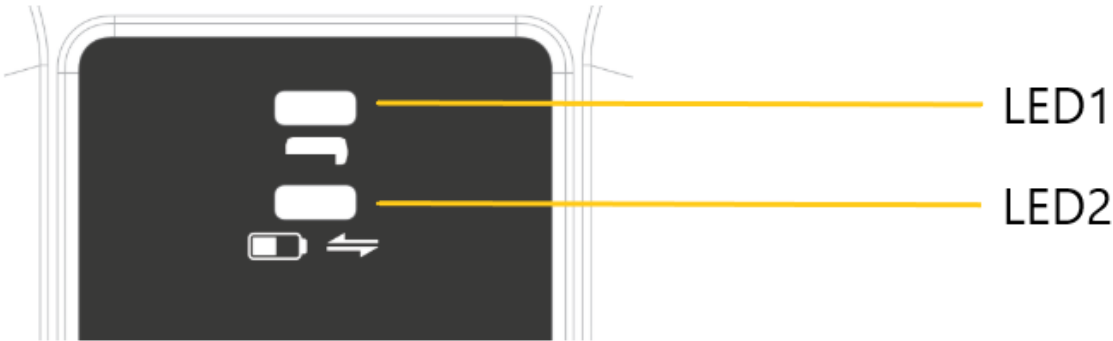
Description

Founders has two buttons located on the side of the Founders unit. The green button controls power, and the black button or action button is designed to work in conjunction with the Empower Module when it is attached to the EDB10 unit.

Button Behavior

Buttons	Description
<div><p>Power Button</p></div>	<p>This button allows the user to power the EDB10 on or off</p> <p>Short Press = Power On</p> <p>Long Press = Power Off</p> <p>4 Second Press = Software Reset</p> <p>10 Second Press = Hardware Reset</p>
<div><p>Action Button</p></div>	<p>Action button with EM120</p> <p>Enables the user to reset the EM120 Module when it is plugged into the EDB10 unit.</p>

Founders LEDS



LED 1 - Empower Module



LED 1 Description

This LED indicates the interaction between the Empower module and external device.

LED 1 Empower Module Behavior with EM120

LED 1 Empower/Data	LED Color	LED State
EM120 attached to EDB10	YELLOW	Solid
EM120 active data connection with radio	GREEN	Solid
Error	RED	Solid
No Empower Module attached	LED OFF	

LED 2. EDB10 battery/connection



LED 2 Description

This LED indicates both the “battery charge state” of the internal battery of the EDB10 device, as well as the “connection state” of the EDB10 to an external controller.

This LED will alternate between indicating the status of the battery charge (first) and the connection status (second). Use the following key to

LED 2 Sequencing

Sequencing when EDB10 is powered on and charging

			Charge State		Connected state		Charge State		Connected state		Charge State		Connected state
Power State	Power Mode	Battery State	Charge State		Connected state		Charge State		Connected state		Charge State		Connected state
On	Charging	0-25%											
		26-74%											
		75-100%											

Note, the connected state in the above table shows the EDB10 connected via Bluetooth. Other connection states will display different colors as below. LED's will display in 0.5, 1.0 or 2.0 second increments as below.

Connected State	Color	
Not Connected	White	
Bluetooth	Blue	
USB	Purple	
Timing	0.5 seconds	
	1 second	
	2 seconds	

Sequencing when the EDB10 is powered on and discharging

			Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state
Power State	Power Mode	Battery State	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state	Charge State	Connected state
On	Not Charging	<10%												
		10-25%												
		26-74%												
		75-100%												

Sequencing when EDB10 is off and charging

Power State	Power Mode	Battery State				
Off	Charging					
		0-25%				
		26-74%				
		75-100%				

Bluetooth Pairing

When the EDB10 is switched on the unit will be discoverable and will be ready to be paired. LED 2 “connection state” will be white indicating the unit is not connected and is ready to pair.

The EDB10 is discoverable when not connected to a device.

A pairing code is not required to pair with the EDB10.

When pairing with the EDB10 with a data collector “device”, the EDB10 will have the name EDBXXXXXX, where XXXXXX are the last 6 digits of the EDB10 serial number.

Once the data collector has been paired, all subsequent requests to bond from the remote device will be honored. The data collector device is the Bluetooth master and must initiate all pairing and bonding activities. The pairing relationship is persistent across loss of power in both the pairing device and the EDB10..

Bluetooth Pairing using NFC

The EDB10 can also be paired with NFC compatible devices (e.g. TDC600 controller).

Steps to pair devices using NFC

- 1) Ensure both pairing devices are switched on, and NFC is enabled on the Data Controller device.
- 2) Place the Controller on top of the EDB10 unit (screen facing up) with the Controller positioned over the NFC icon on the EDB10 unit. It may be necessary to move the data controller over the EDB10 unit until the NFC tags are aligned.
- 3) Once detected a dialogue box appears asking if you are sure you would like to pair with the EDB10. Select “YES”
- 4) One further dialogue box will appear confirming pairing and connection. Confirm the pairing in order to finalize the connection.
- 5) Verify that connection has been established in the settings of your data collection device.

Connecting to a Trimble Radio using the EDB10 and EM120 Module

When the EDB10 is attached to an EM120 Cirronet module, and paired with a data collector device, a radio connection can be established with a Trimble Total Station radio.

This is initiated from within the Data Collector software and is based on the internal settings of the Trimble Total Station radio.

Once the Trimble radio is connected, the EDB10 connection to the Data collector device is essentially transparent. An application can send and receive data using the radio link solution upon request.

Data received from the remote radio connection will be transmitted to the data collector via the connection with the EDB10.

Revision History

Date	Revision	Author	Comment
08-05-20	1	Bruce Hook	
4/14/21	1.1	Bruce Hook	Updated regulatory Information

Marketing and Product Management

Product Management

Bruce Hook

Project Management

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