Leading Conversion Technology for Power Resilience

TSI & T2S USB Retrofit

Procedure

T2S USB and Bravo TSI Replacement with Inview Fit and Bravo 25-R

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1. Objective

This document provides the retrofit procedure for upgrading inverter systems from the legacy T2S USB and Bravo TSI configuration to the Inview Fit and Bravo 25-R configuration.

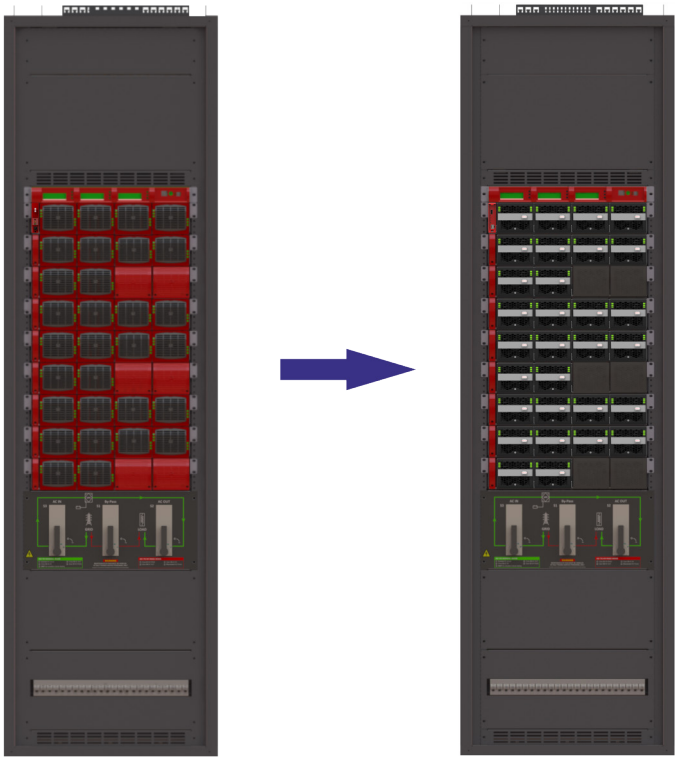


Figure 1. TSI Bravo - Retrofit Overview

2. Requirements

Material:

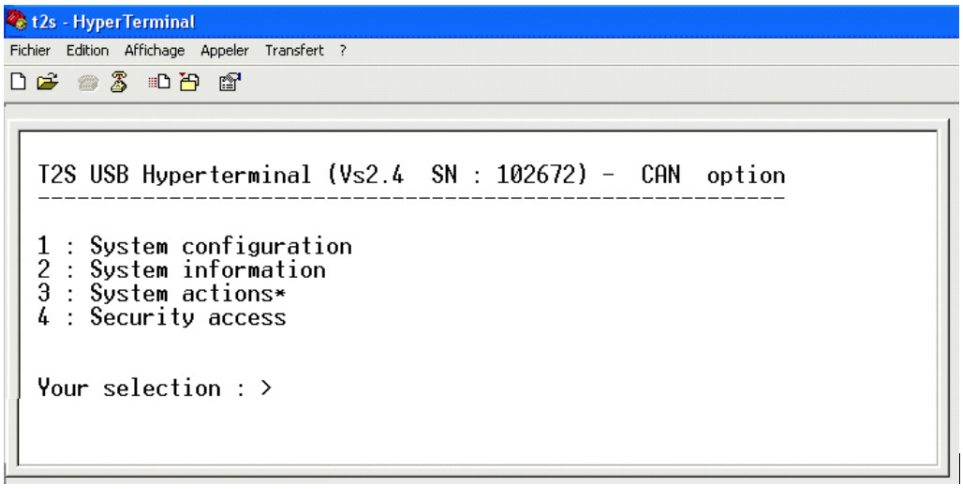
- Inview Fit
- Bravo 25-R modules
- Shelf Front Reinforcement

Tool: Right-Angle Ratchet Screwdriver

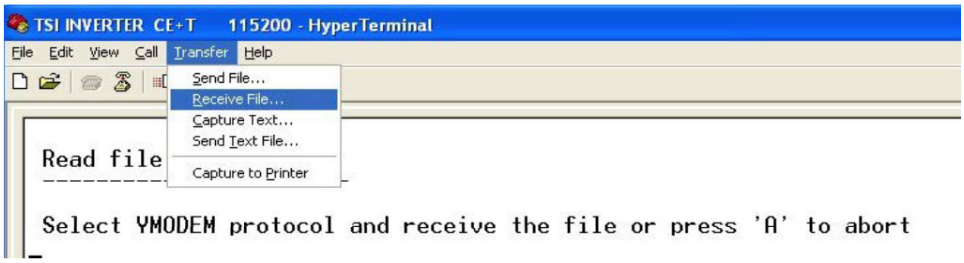
3. Preparation and Backup of T2S USB configuration

Download and save the current system configuration file from the T2S USB controller on local connection before proceeding.

Note: If the system is equipped with a Generex module, its configuration must also be downloaded. Then, it must be disconnected to ensure proper communication. Inview FIT incorporates all Generex functionalities and provides additional communication capabilities, including SNMP and Modbus.



1. Select **(1)** in root menu for **System configuration**, then select **(2)** to **Read Configuration file from T2S**. The T2S prompts for downloading.
2. Click **Transfer** and then **Receive File**.

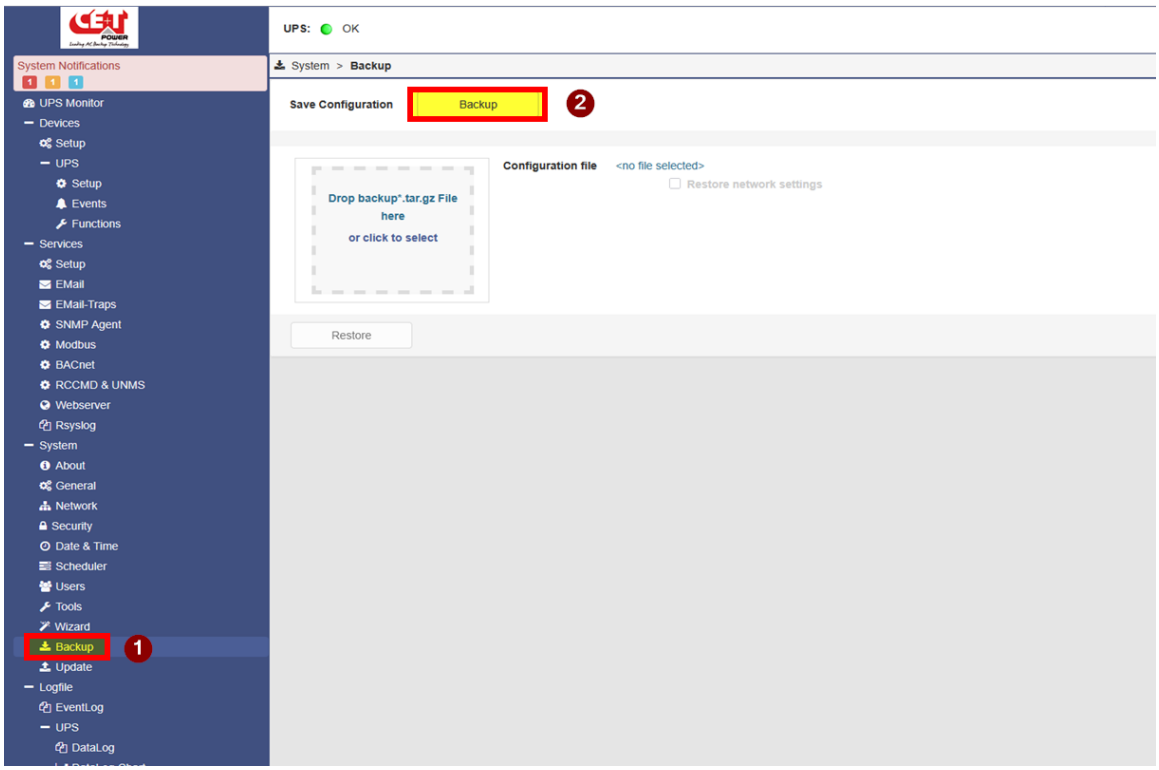


3. In the screen that pops up, click the **Browse** button and select a folder to save the configuration file.



4. Choose **Ymodem** from the drop down list.
5. Press **Receive** to start downloading.
6. The file is named as **T2S_config_file_hh_mm_ss__dd_MM_yyyy.txt**, where **hh :mm :ss dd/MM/yyyy** stands for date and time.
7. If the transfer is successful, a message appears as "**Successfully uploaded**".

8. Download the Generex configuration file.



9. Send a request to CE+T customer support to adapt the configuration for Inview operation **(attach the configuration file downloaded from the T2S & Generex)**.

4. Shut down or Bypass

Power down the entire system or switch to Bypass mode (if available).

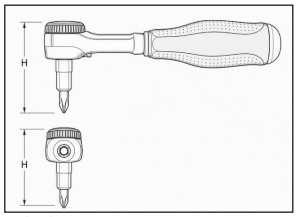
a. If no bypass is available: Completely shut down all power sources (AC & DC).

b. If a bypass is available: Switch the system to Bypass mode and shut down the DC source.

5. Hardware Replacement

1. Remove the modules and the T2S controller from all the shelves.
2. Replace the mechanical tab (see below).
    - Remove the 5 screws shown below to remove the “Shelf front reinforcement”, by using a Right-Angle Ratchet Screwdriver.



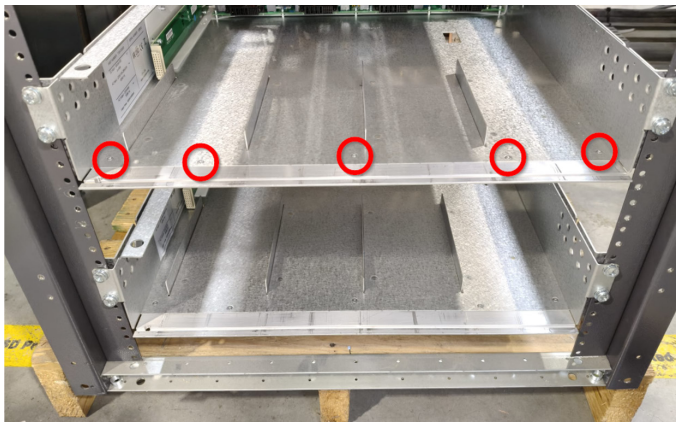


Note: The dimension H must be less than the spacing between two shelves.

    - Replace the removed “Shelf front reinforcement” by the one with reference number shown below.

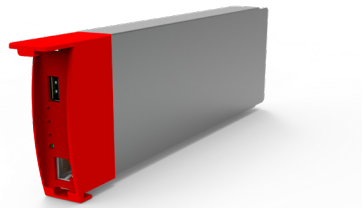


    - Tighten the 5 screws back up.



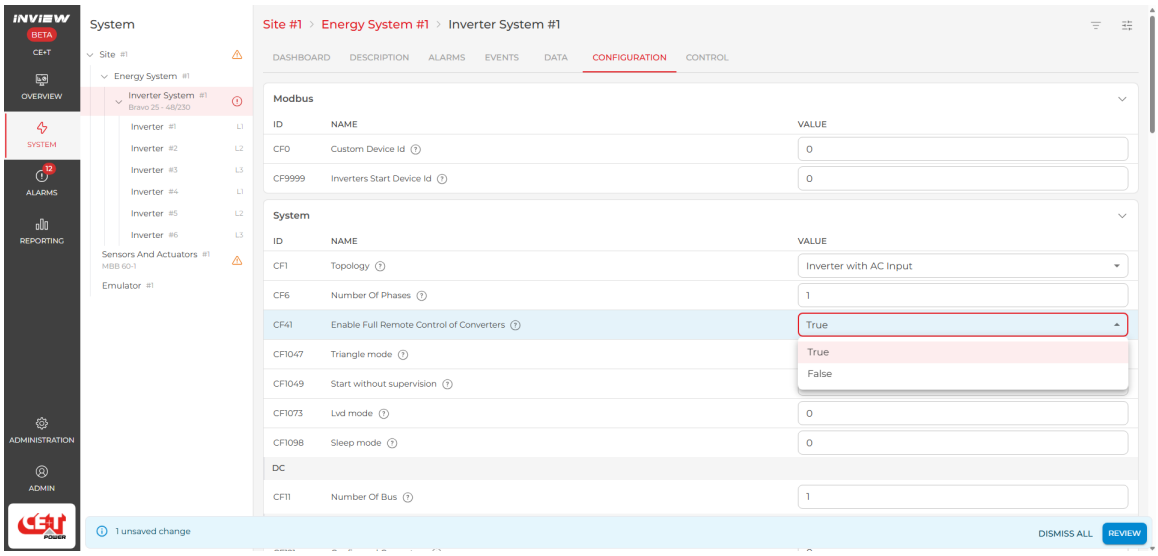
3. Insert the minimum number of Bravo 25-R modules required for initial configuration:
    - Three-phase system: Insert one module per phase.
    - Single-phase system: Insert two modules.

4. Install the new Inview Fit controller.

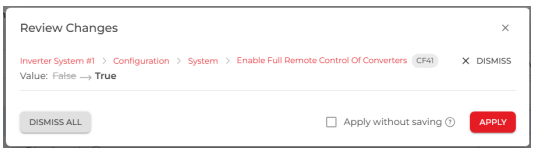


6. System Startup and Configuration

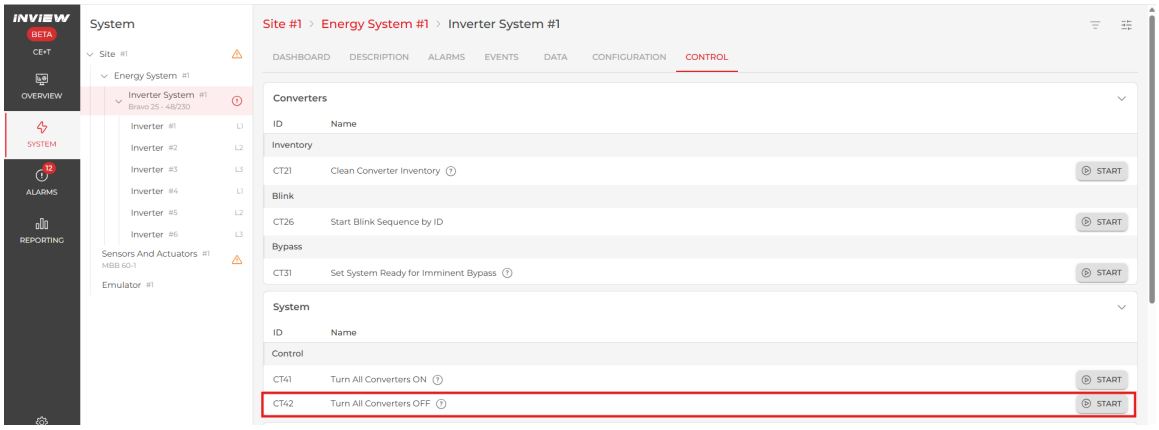
1. Start the system on DC power.
2. Establish a local connection with Inview FIT through the LAN port.
3. Open the web browser, type the default IP address 10.250.250.1 in the address field and press enter.
4. Login to Inview with the following credentials:
    - User Name: Admin
    - Password: 1234
5. Navigate to *SYSTEM > SITE > Energy System > Inverter System > Configuration*, scroll down to *System* section ID **CF41** and choose the value as **True** to enable full remote control of converters.



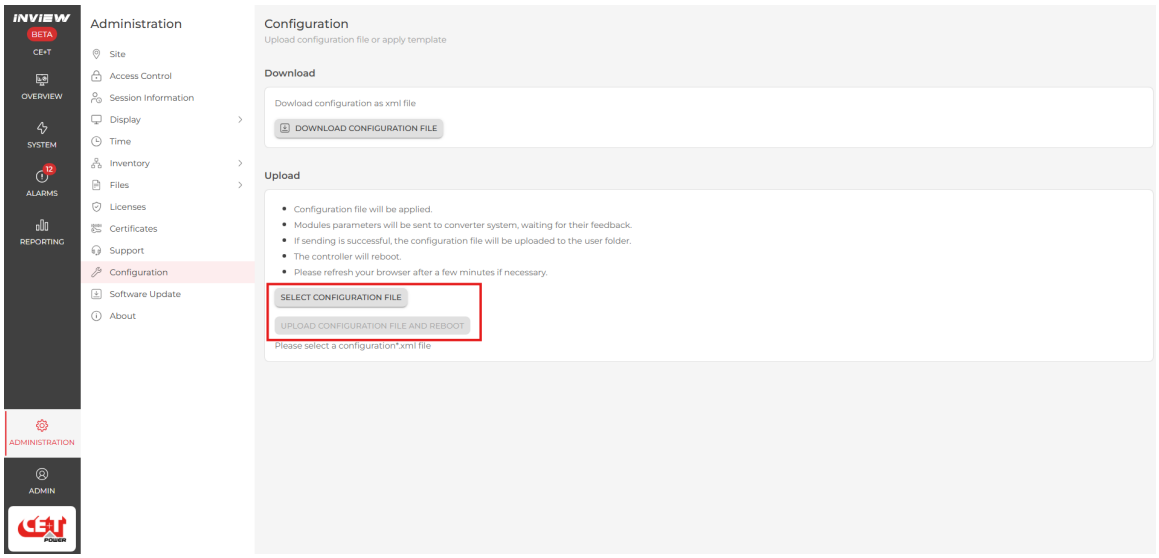
    - Click **REVIEW** > **Apply** to save the changes.



6. Navigate to *SYSTEM > SITE > Energy System > Inverter System > Control*, scroll down to *System* section ID **CT42** and click **Start** to turn all converters OFF.

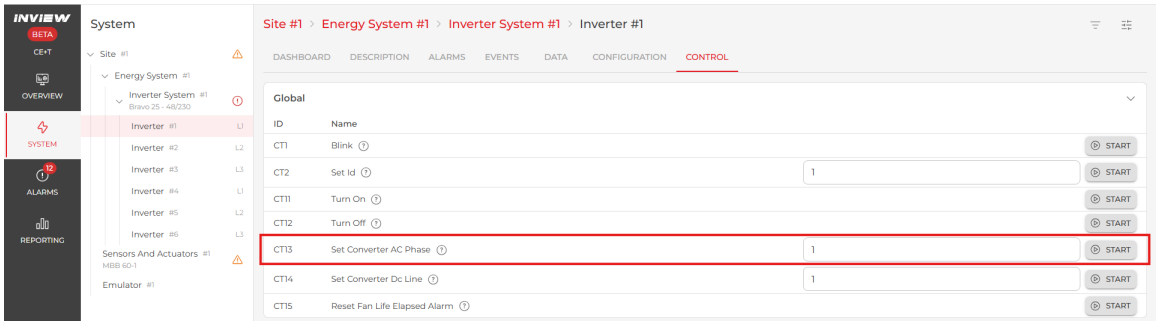


7. Navigate to *Administration > Configuration > Upload*, click **SELECT CONFIGURATION FILE**, browse and select the configuration file generated by CE+T customer support that is adapted for Inview operation, and then click **UPLOAD CONFIGURATION FILE AND REBOOT**.

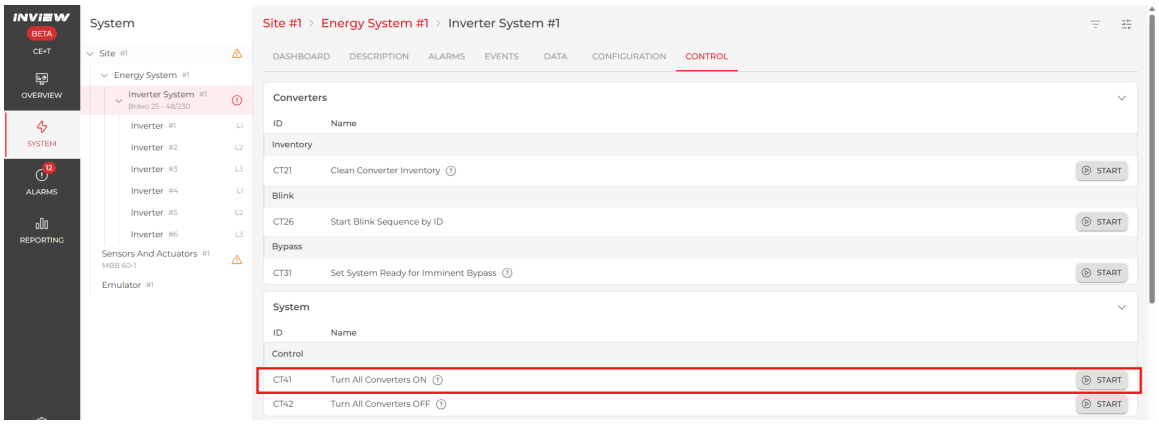


8. Inview should reboot automatically after the configuration has been uploaded.
    - If Inview does not reboot, contact CE+T customer support.
9. After the reboot, review all parameters and active alarms to ensure that the uploaded configuration is compatible with the existing system.
    - Pay attention to the newly introduced parameters.

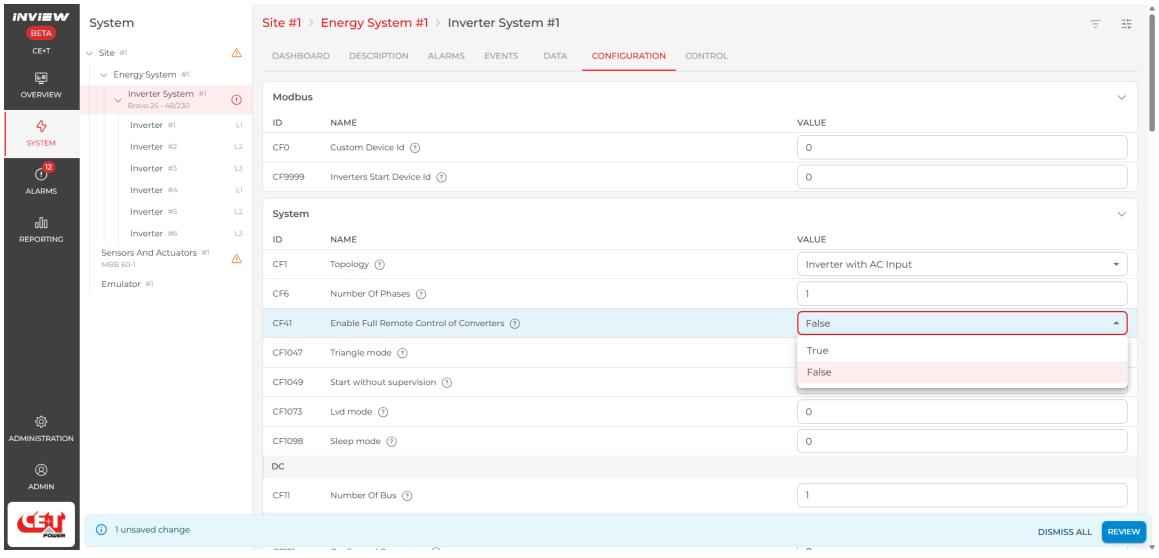
10. Navigate to *SYSTEM > SITE > Energy System > Inverter System > Inverter #1*, enter the phase number in ID **CT13** and click **START** to assign the phase. Follow the same procedure to assign the correct phase for all the inverters.



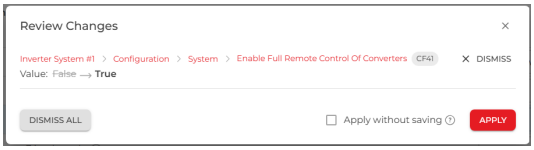
11. Navigate to *SYSTEM > SITE > Energy System > Inverter System > Control*, scroll down to *System* section ID **CT41** and click **Start** to turn all converters ON.



12. Navigate to *SYSTEM > SITE > Energy System > Inverter System > Configuration*, scroll down to *System* section ID **CF41** and choose the value as **False** to disable full remote control of converters.



- Click **REVIEW** > **Apply** to save the changes.



13. Wait until the initially installed modules have completed their start-up sequence. Then insert the remaining modules one at a time.

The final system looks like the below image.



14. Once all inverter modules have fully started:
    - If AC input (ACin) is available, it can be switched ON.
    - If the system is operating in bypass mode, measure the phase displacement across the bypass terminals before returning the system to normal mode. This confirms that correct phase is assigned to each inverter module. If the phase is not properly assigned, refer to step 10 on page 8 and assign the phase correctly.
15. If the AC output (ACout) circuit breaker was switched OFF during the procedure, switch it back ON.

WARNING! Before returning a system from bypass to normal operation, always verify the phase displacement across the bypass terminals. Incorrect phase assignment may result in unsafe switching condition.

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