

Host Test Kit: DD Application Test Module Frequently Asked Questions

GENERAL QUESTIONS

What is the Host Test Kit: DD Application Test Module?	2
What can I do with the Host Test Kit?	2
What are the benefits of the Host Test Kit?	3
What is included with the Host Test Kit?	3
What additional components do I need to use the Host Test Kit?	3
Are there recommended Fieldbus Foundation products for the Host Test Kit?	4
What are the system requirements?	4
How do I receive updates to my Host Test Kit DD Application Test?	4
What licenses are available for the Host Test Kit DD Application Test?	4
How do I purchase a licensed copy of the Host Test Kit DD Application Test?	4

UPDATES TO HTK v2.0.0

What are the new features of the Host Test Kit v2.0.0?	5
What is the benefit associated with the implementation of Field Diagnostics?	5
What are the benefits associated with Profile Custom Function Blocks?	5
What is the benefit associated with the compatibility rev. parameter?	5
Do I need to buy a new HTK or can I upgrade my current one?	6
Am I eligible for the update?	6
How do I get the update?	6
Where do I send the device for updates?	6
What is the turnaround time?	6
How will it be returned?	7
Do I have to pay for shipping?	7
How should I deal with imports?	7
What will be done to the standard test device I send back for upgrade?	7

HOST PROFILE TEST AND REGISTRATION

What is the process for registering a host under the new program?	8
What host profile classes can be tested and registered with the Host Test Kit DD Application Test Module?	8
What are the other registration details?	8
When will developers be able to test under these Host Profiles?	8
Will I be able to use the registration check mark symbol under the new Host Profile and Registration Program?	9

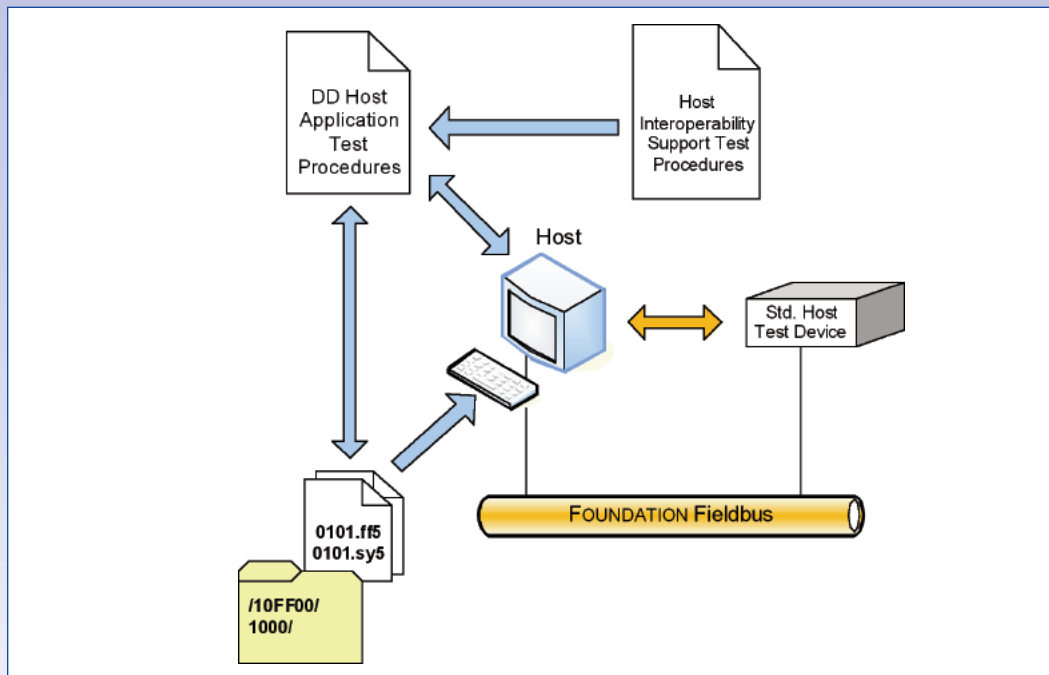
SUPPORT

How do I get support or learn more about the Host Profile Test and Registration Program?	10
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General Questions

What is the Host Test Kit DD Application Test Module?

The Host Test Kit DD Application Test Module tests the functionality of a host and its conformity with the FOUNDATION Host Interoperability Support Test Specification and the DD Host Application Test Procedures. An excellent tool for troubleshooting and debugging, the test kit includes all the hardware and software required to ensure a manufacturer's complete device integration as specified by the foundation's official registration testing procedures.



What can I do with the Host Test Kit?

The Host Test Kit is used for interoperability and DD testing. The kit will verify the functionality of a host and its conformity to the Host Interoperability Support Test Specification and the DD Host Application Test Procedures. The included software allows you to run tests identical to those used by the Fieldbus Foundation before your host is submitted for official registration.



General Questions (cont'd)

What are the benefits of the Host Test Kit?

- Standardized test requirements and test cases for all hosts within a profile tested to the same requirements.
- Standardized DD and CF files assuring host can run DD test cases and handle offline configuration parsing.
- Standardized test device with all basic IO Function Blocks and specialized test transducer blocks.

What is included with the Host Test Kit?

Standard Host Test Device (H1)

Host Test Kit Install CD

- Host Interoperability Support Test Specification
- DD Host Application Test Purposes
- DD Application Test DDs (source)
- DD Application Test DDs (binary)
- DD Host Application Test Procedures
- DD Test Case Spreadsheet (xls)
- Common Compliance Test Requirements
- Host Test Kit User's Guide

What additional components do I need to use the Host Test Kit?

- Fieldbus Segment (power supply and conditioner, terminators)
- One (1) DB9-to-Fieldbus Cable for the Standard Host Test Device

You can make these cables by yourself by connecting the Fieldbus+ to pin 6 and Fieldbus- to pin 7. See FF-816/IEC 61158 (Fieldbus Specifications) for additional details.

General Questions (cont'd)

Are there recommended Fieldbus Foundation products for the Host Test Kit?

Yes, it is highly recommended that you have the following products:

- **DD Library** – The Registered DD Library contains DD source code that device developers can import and use to build the device descriptions.
- **DD Services** – The source code library provides several convenience functions to make it easier for a system supplier to develop DD-based applications.
- **DD-IDE** – The IDE provides a single, easy-to-use application for developing, testing and debugging DD files.

What are the system requirements?

The DD Application Test Module is designed to validate host applications implementing DD Services 4.2 or greater, including DD Services 5.0 constructs such as charts, graphs, images and waveforms for visualization; files for persistent storage of functional parameter data; and grids for vector data visualization and manipulation.

How do I receive updates to my Host Test Kit DD Application Test?

The Host Test Kit includes 90 days of maintenance updates and bug fixes to the DD Application Test Module. An extended support and maintenance agreement is available to assure your product remains up-to-date.

What licenses are available for the Host Test Kit DD Application Test?

The DD Application Test Module includes one test device. The source code and documentation are licensed for single site use.

How do I purchase a licensed copy of the Host Test Kit DD Application Test?

To purchase a licensed copy of the Host Test Kit, please complete the product order form found on the Fieldbus Foundation website, www.fieldbus.org, and fax it with payment information to (512) 794-8893.



Updates to HTK v2.0.0

What are the new features of the Host Test Kit v2.0.0?

- Incorporation of Field Diagnostics (FF-912)
- Addition of Profiled Custom Function Blocks
- Addition of COMPATABILITY_REV parameter for future testing against AN-007
- Misc. bug fixes

What is the benefit associated with the implementation of Field Diagnostics?

Advanced Field Diagnostics is implemented in this update and allows the end user to access and configure the diagnostics within field devices. The update better organizes and handles the display of diagnostic results.

What are the benefits associated with Profile Custom Function Blocks?

This feature enables the manufacturer/end user to define custom function blocks compliant with the specifications of FOUNDATION fieldbus in their host system. It also provides the user with the flexibility to expand and tailor their systems for each specific application beyond the norm.

What is the benefit associated with the compatibility rev. parameter?

This feature offers a specific benefit designed for the end user in mind. It helps to ensure the interoperability between an old device and its new replacement. This is advantageous in a situation where a sudden malfunction occurs and it is critical to install a replacement quickly that will support what was previously downloaded to the device.

Updates to HTK v2.0.0 (cont'd)

Do I need to buy a new HTK or can I upgrade my current one?

You can upgrade your current Host Test Kit.

Am I eligible for the update?

If your maintenance agreement is active, then you are eligible to update your HTK. In fact, this update is highly encouraged in order to take full advantage of the capabilities FOUNDATION fieldbus has to offer.

How do I get the update?

Updates must be done by the Fieldbus Foundation at our offices in Austin, TX USA. Your company will pay the cost to ship the HTK to the Fieldbus Foundation, and we will incur the cost to update both the physical hardware as well as the firmware. We will then ship it back to you at our own cost. In order to schedule your HTK update, please email support@fieldbus.org or call (512) 794-8890 to request a date. Please wait for a confirmation of your requested date from our staff before mailing the HTK to us.

Where do I send the device for updates?

Shipping information is as follows:

Fieldbus Foundation
Attn: Jay McEvers
9005 Mountain Ridge Dr.
Bowie Bldg Suite 200
Austin, TX 78759

What is the turnaround time?

In most cases, the devices will be updated within 48 hours and shipped immediately afterwards. Shipping time will vary depending on your location.



Updates to HTK v2.0.0 (cont'd)

How will it be returned?

The shipment will be returned via UPS.

Do I have to pay for shipping?

Return shipments are paid for by the Fieldbus Foundation, but shipments of the HTK to our offices must be paid by the sending company.

How should I deal with imports?

The manufacturer/sender is responsible for taking care of imports and charges on those imports, but it can be considered a temporary import since it will be returned to the sender shortly after its update.

What will be done to the standard test device I send back for upgrade?

The updated firmware will be flashed to the device and a physical toggle switch will be installed on the outer casing for turning simulation on and off in order to simulate Field Diagnostics.

Host Profile Test and Registration

What is the process for registering a host under the new program?

The complete Host Profile and Registration Process is available for download on Fieldbus Forums, <http://forums.fieldbus.org>.

What host profile classes can be tested and registered with the Host Test Kit DD Application Test Module?

The following hosts can be submitted for testing and registration:

- Class 61a – Integrated Host
- Class 62a – Visitor Host
- Class 63a – Bench Host Non-Commissioned Device
- Class 64a – Bench Host Commissioned Off-Line Device

What are the other registration details?

Previous host test registrants can send in their Host Test Kit (no need to purchase a new one) and the Fieldbus Foundation will update the firmware, plus change the physical text box unit in order to add a switch for simulation mode (no additional charge). The supplier will pay for shipping their unit to the foundation; return shipment is at no charge.

When will developers be able to test under these Host Profiles?

Host test campaigns are available now. Contact the Fieldbus Foundation to reserve a date.

Host Profile Test and Registration (con't)

Will I be able to use the registration check mark symbol under the new Host Profile and Registration Program?

Yes, once your host has completed all requirements of the Host Registration Process, you will receive a registration certificate for your host. At this time, you may use the registration check mark symbol.

Support

How do I get support or learn more about the Host Profile Test and Registration Program?

You may e-mail support@fieldbus.org or call the Fieldbus Foundation at (512) 794-8890.

Questions may be posted to Fieldbus Forums at <http://forums.fieldbus.org>.

If you do not have access to the Fieldbus Forums and wish to join, please be sure to follow the instructions located in the “Register” menu. If you need assistance, please contact us.