



**Network Integrity Systems**  
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**We Bring Security To Light™**

## **Application Note: INTERCEPTOR™ Installation Checklist (Dark Fiber)**

This conformance checklist lists the critical steps to be taken during installation, setup and configuration of a Dark fiber INTERCEPTOR™. These steps are necessary to ensure a successful installation of the INTERCEPTOR™.

<b>Prior to setup:</b>	<b>Yes</b>	<b>No</b>
1. Ensure that the INTERCEPTOR™ is securely installed into its rack or cabinet mount.	<input type="checkbox"/>	<input type="checkbox"/>
2. Verify that the monitored optical path (zone) is connected in a continuous loop between the Remote RX and Remote TX connectors of each used channel of the INTERCEPTOR™.	<input type="checkbox"/>	<input type="checkbox"/>
3. Verify that the total insertion loss of the monitored optical path is less than 25dB.	<input type="checkbox"/>	<input type="checkbox"/>
4. Ensure that all optical fibers in monitored path (including access jumpers to INTERCEPTOR™, cable in raceway, and all loopbacks) are securely fastened to restrict unnecessary movement during monitoring.	<input type="checkbox"/>	<input type="checkbox"/>
5. Ensure that the INTERCEPTOR™ is connected to a clean (filtered) power source such as an uninterruptible power supply (UPS).	<input type="checkbox"/>	<input type="checkbox"/>
6. Verify that the INTERCEPTOR™ is connected to the preferred alarm reporting path (INTERCEPTOR™ relay contacts to alarm panel, or Ethernet connection to monitoring network for SNMP traps or emails).	<input type="checkbox"/>	<input type="checkbox"/>
7. Verify that the Equipment Alarm relay of the INTERCEPTOR™ is connected to an alarm panel or reporting device if the user wishes to monitor the health of the unit during operation.	<input type="checkbox"/>	<input type="checkbox"/>
8. Provide a computer with 9 pin serial port and terminal emulator software (such as TeraTerm or Hyperterminal) that may be used for the initial INTERCEPTOR™ setup.	<input type="checkbox"/>	<input type="checkbox"/>
9. Determine a secure password with the following requirements for the INTERCEPTOR™:	<input type="checkbox"/>	<input type="checkbox"/>
• Must be at least 10 characters		
• Must include a character from at least two of the following categories:		
○ Lower case letter		
○ Upper case letter		
○ Number		
○ Special character on keyboard		



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<b>During setup:</b>	<u>Yes</u>	<u>No</u>
1. Verify that each channel in use in the INTERCEPTOR™ has a displayed power between -9dBm and -45dBm. This is displayed beside each channel in the <i>Main Menu</i> window of the INTERCEPTOR™.	<input type="checkbox"/>	<input type="checkbox"/>
2. Verify that the date and time in the INTERCEPTOR™ is set correctly for your location. This is displayed and changed under the <i>Date and Time</i> selection in the main menu.	<input type="checkbox"/>	<input type="checkbox"/>
3. Enter the proper network parameters into the <i>Comms Configuration</i> screen from the main menu if the unit will be administered and/or generate alarm notifications via Ethernet.	<input type="checkbox"/>	<input type="checkbox"/>
4. Select and set up an Alarm Target (under <i>Alarm Target Configuration</i> from the Main Menu) for each type of network alarm (SNMP trap, email, SMS) that will be required from the INTERCEPTOR™.	<input type="checkbox"/>	<input type="checkbox"/>

**If immediate cable monitoring is required (with manufacturing defaults):**

1. If relay contact alarm notifications are to be used, select <i>Report and Halt for Intrusion Signature</i> and <i>Smart Filter Detect</i> alarm response in the channel entry screen for each channel in use.	<input type="checkbox"/>	<input type="checkbox"/>
2. If automatic channel reset is to be used for each channel, enter <i>Enable/Auto Alarm Reset</i> and <i>Auto Alarm Reset Time Length</i> in the <i>System Configuration</i> window from the Main Menu screen.	<input type="checkbox"/>	<input type="checkbox"/>
3. Set <i>Enable Monitoring</i> in the channel setup screen of each channel in use to Enabled.	<input type="checkbox"/>	<input type="checkbox"/>
4. After performing steps 1 through 3 in this section, verify that each INTERCEPTOR™ channel in use will generate an alarm when the access jumpers to the INTERCEPTOR™ or a length of the monitored optical path fibers are handled. If the INTERCEPTOR™ is too sensitive (issues nuisance alarms) or is insensitive, refer to the INTERCEPTOR™ Quick Start Guide and User Manual (section 7.5) for manual parameter adjustment techniques.	<input type="checkbox"/>	<input type="checkbox"/>

**THE INTERCEPTOR™ IS NOW READY FOR TEMPORARY USE.**

*NOTE: Perform autoconfiguration of each INTERCEPTOR™ channel in use as soon as it is practical to do so (see Autoconfiguration section at the end of this document).*



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**If immediate cable monitoring is required (using Prescan Wizard):**

- |   | <u>Yes</u>               | <u>No</u>                |
|---|--------------------------|--------------------------|
| 1. If relay contact alarm notifications are to be used, select <i>Report and Halt</i> for <i>Intrusion Signature</i> and <i>Smart Filter Detect</i> alarm response in the channel entry screen for each channel in use.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. If automatic channel reset is to be used for each channel, enter <i>Enable/Auto Alarm Reset</i> and <i>Auto Alarm Reset Time Length</i> in the <i>System Configuration</i> window from the Main Menu screen.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Enter the proper sensitivity setting for the cable environment present on each channel after the Prescan has completed.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Set <i>Enable Monitoring</i> in the channel setup screen of each channel in use to Enabled.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. After performing steps 1 through 4 in this section, verify that each INTERCEPTOR™ channel in use will generate an alarm when the access jumpers to the INTERCEPTOR™ or a length of the monitored optical path fibers are handled. If the INTERCEPTOR™ is too sensitive (issues nuisance alarms) or is insensitive, refer to the INTERCEPTOR™ Quick Start Guide and User Manual (section 7.5) for manual parameter adjustment techniques. | <input type="checkbox"/> | <input type="checkbox"/> |

**THE INTERCEPTOR™ IS NOW READY FOR USE.**

**If Autoconfiguration is performed *after* using defaults or Prescan Wizard:**

- |   |                          |                          |
|---|--------------------------|--------------------------|
| 1. Select an autoconfiguration interval (minimum 24 hours) in which all normal activity near the cable will occur.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Confirm that no movement or maintenance on or near the fiber or INTERCEPTOR™ will occur during the autoconfiguration period.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Select <i>Initiate Autoconfigure</i> and enter the desired autoconfiguration interval for each channel in use. The INTERCEPTOR™ will then begin auto-configuration for the selected period of time. Do NOT disturb the monitored fiber or access jumpers during the autoconfiguration interval.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. After completing steps 1 through 3 in this section, and the autoconfiguration interval has fully completed, verify that each INTERCEPTOR™ channel in use will generate an alarm when the access jumpers to the INTERCEPTOR™ or a length of the monitored optical path fibers are handled. If the INTERCEPTOR™ is too sensitive (issues nuisance alarms) or is insensitive, refer to the INTERCEPTOR™ Quick Start Guide and User Manual (section 7.5) for manual parameter adjustment techniques. | <input type="checkbox"/> | <input type="checkbox"/> |

**THE INTERCEPTOR™ IS NOW READY FOR USE.**