Cisco Systems, Inc.

Trademark Acknowledgments
Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks.

Third party trademarks mentioned are the property of their respective owners.
The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Publication Disclaimer
Cisco Systems, Inc. assumes no responsibility for errors or omissions that may appear in this publication. We reserve the right to change this publication at any time without notice. This document is not to be construed as conferring by implication, estoppel, or otherwise any license or right under any copyright or patent, whether or not the use of any information in this document employs an invention claimed in any existing or later issued patent. A printed copy of this document is considered uncontrolled. Refer to the online version for the latest revision.

Copyright
© 2018 Cisco and/or its affiliates. All rights reserved.

Information in this publication is subject to change without notice. No part of this publication may be reproduced or transmitted in any form, by photocopy, microfilm, xerography, or any other means, or incorporated into any information retrieval system, electronic or mechanical, for any purpose, without the express permission of Cisco Systems, Inc.
## Contents

1  About this documentation. ................................................................. 4  
   1.1 Document purpose. ................................................................. 4  
   1.2 Warnings and notices. ............................................................. 4  
2  Introduction & Characteristics. ..................................................... 5  
3  Connect the IC3000. ................................................................. 6  
4  Configure the IC3000. ............................................................... 7  
5  Prepare and import the provisioning package. .............................. 11
1 About this documentation

1.1 Document purpose
This quickstart guide shows how to connect, configure and install the Cisco IC3000 Industrial Compute Gateway as a Cisco Cyber Vision sensor.

This documentation is applicable to system version 3.0.0.

**IMPORTANT**
Cisco Cyber Vision EAP is a snapshot of the ongoing development process and is in the qualifying phase. Testing for this program is under progress and may contain features that are incomplete or may change before the next full release.

1.2 Warnings and notices
This manual contains notices you have to observe to ensure your personal safety as well as to prevent damage to property.

The notices referring to your personal safety and to your property damage are highlighted in the manual by a safety alert symbol described below. These notices are graded according to the degree of danger.

**WARNING**
Indicates risks that involve industrial network safety or production failure that could possibly result in personal injury or severe property damage if proper precautions are not taken.

**IMPORTANT**
Indicates risks that could involve property or Cisco equipment damage and minor personal injury if proper precautions are not taken.

**Note**
Indicates important information on the product described in the documentation to which attention should be paid.
2 Introduction & Characteristics

The Cisco IC3000 Industrial Compute Gateway is an edge computing platform which extends the cloud computing paradigm to the edge of the network. The Cisco IC3000 captures traffic in SPAN mode. It contains 2 RJ45 10/100/1000 BaseT connectors ports and 2 SFP fiber ports to connect switches in port mirroring.

To enroll the IC3000, you must perform a manual installation. To do so, you generate and retrieve the provisioning package from the Cisco Cyber Vision and manually import it into the IC3000.

Required material and information:

- An Admin or Product access to Cisco Cyber Vision.
- A USB drive formatted as FAT32.
- The serial number of the IC3000 to be configured (located on the hardware's front view).
- The IC3000 and sensor network information.
3  Connect the IC3000

The IC3000 contains 4 independent capture ports in SPAN mode, each of which can be connected to a switch.

The IC3000’s Industrial network interface is to be connected to switches configured in port mirroring only.

To connect the network interfaces to the IC3000:

1. Connect the Collection network interface (IC3000 to Center) to the MGMT ENET port (1).
2. Connect the Industrial network interface (IC3000 to on-site switches) to ports 1, 2, 3, 4 (up to 4 switches configured in port mirroring).
   - Ports 1 and 2 are RJ45 10/100/1000 BaseT Connectors (2).
   - Ports 3 and 4 are SFP fiber ports (3).
4 **Configure the IC3000**

**IMPORTANT**
Make sure network information entered below is correct and won't result in network conflict. Any mistake could bring you to perform a Reset to Factory Defaults of the sensor.

**IMPORTANT**
Avoid performing a Reset to Factory Defaults on the IC3000. This will lead to a complete deletion of the inner system and a special procedure will be required. If a Reset to Factory Defaults has to be performed, contact the support.

**To configure the IC3000:**

1. Login to Cisco Cyber Vision.
2. Access the System administration (1) (cog icon on the right upper side of Cisco Cyber Vision).
3. Click Sensors in the left menu and make sure you accessed the Management submenu (2).
4. Click Install sensor manually (3).
The manual sensor installation opens.

5. Select Cisco IC3000 as hardware model. The corresponding fields to be filled up display below.

Two types of configuration are needed. The first configuration is to access the Cisco IC3000 for troubleshooting purposes, whereas the next one is to configure the sensor's network information. As you can see, two different IP addresses belonging to the same subnetwork have to be set. Pay attention to the contextual help to guide you through the configuration.

**Cisco IC3000 configuration:**

You will find the IC3000s' serial number on its front view (1).
The local manager user name corresponds to the credentials that would be used on IOX (MGMT ENET port) in case of troubleshooting. Make sure to keep this information stored.

Sensor configuration:

You can select the default capture mode and change it later.

1. Click Create Sensor.
2. The sensor displays in the sensor list with New as status (1).
3. Click the sensor to deploy its menu.
4. Click Get provisioning package (2).

A Get provisioning package pop up appears to set a password.

5. Set the local manager's password for troubleshooting. Make sure to keep this information stored.

6. Click ok to download the provisioning package.
   The IC3000 status switches to Disconnected.

**IMPORTANT**
Do not install several provisioning packages on the IC3000. The provisioning package will NOT overwrite a previously installed one with incorrect network information or a misconfigured password. In such case, a Reset to Factory Defaults will have to be performed.
5 Prepare and import the provisioning package

To deploy the provisioning package in the IC3000:

1. Unzip and extract the downloaded provisioning package files at the root directory of a USB drive formatted as FAT32.
   The new file is named with the IC3000's serial number.
2. Plug the USB drive on port 2 of the IC3000.
3. Connect the sensor to the DC Current source.
   The IC3000 status changes to Enrolled.
4. Unplug the USB drive from port 2.
   The IC3000 status should quickly change to Connected.

The provisioning package has been installed successfully on the IC3000 and traffic starts to appear in Cisco Cyber Vision.