

All.Net Analyst Report and Newsletter

Welcome to our Analyst Report and Newsletter

The ONE Page Your Board Members Should Read About Cyber-Security

Welcome to the information age. Starting when you first interact with anything artificial you are interacting with the main mechanism of the information age, the Internet. The Internet allows any artificial device anywhere to interact with any other artificial device anywhere very quickly and all the time. Artificial devices are, in turn, connected to the natural world, and they can observe and interact with the natural world through those connections, called interfaces.

Examples of things that the Internet connects include satellites; anything that flies, drives, or floats; power, water, fuel, financial, and other infrastructure systems; manufacturing, supply, delivery, and logistics systems; homes, phones, computers, and printers; building air conditioning and heating systems, door entry systems, and fire detection and suppression systems; emergency services like police, fire, and emergency operators; military systems like weapons, sensors, analysis, supply and logistics, personnel, training, and other systems; and anything else that has or connects to anything electronic or automated.

If you know how to do it, you can observe and interact with any and every artificial device and anything and everything they interface to in the natural world. That is true for everyone in the world.

The great benefit of this is that anything you want to know or find out can be sought through the Internet and, to the extent that anything of interest is connected or interfaced to the Internet, it is available to you and anyone else. You can use this to communicate with and control anyone or anything interfaced to or part of the artificial or natural world, and so can anyone else.

This enormous capability and potential is purely mechanistic in its operation. It does what it is told by anyone that knows how to tell it what to do. It doesn't know good from bad, friend from foe, or owner from other. The great detriment is that anything anyone wants to know or find out can be sought through the Internet and, to the extent that anything of interest is connected or interfaced to the Internet, it is available to anyone to use in any way they want.

Examples of things you or anyone else can do, if you know how, include seeing, changing, stopping, or controlling any and all of the things the Internet connects. Anyone could change weather predictions, send fire trucks to the wrong places, open up dams, listen and watch you wherever you take your cell phone, direct drone strikes against targets, change shipping addresses on product deliveries, turn off your heat in winter, find your country's spies, cause cars to accelerate while disabling brakes, print a pornographic picture on every piece of paper in your printer, and so forth. In fact, essentially all of these things have been done.

Because all of these things connect to each other, interactions between these things can also happen. For example, you might shut off water to fire hydrants, turn off fire suppression, then start fires. Or, you could watch for access to Web sites related to symptoms of influenza, find the individuals with the symptoms, track who they have interacted with, and detect and stop an epidemic before it goes very far. You choose how you use the Internet, and everyone else chooses how they use it.

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