



# SMARTLAYER2™ (SL2™)



SmartLayer2™ or SL2™ is a SmartPoints™-based software defined network (SDN) framework that allows for hyper-secure ad-hoc networks to be defined which spans multiple networks and over the Internet in a powerful yet flexible manner.



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## Introduction

The ability to provide rapid ad-hoc secure connectivity, including defining networks of devices or services that can talk to each other, over untrusted networks has been to date an elusive objective. By using the equivalent of virtual SmartNodes™ that can perform NAT punch throughs and firewall traversals using the hyper-secure SmartPoints™ technology stack provides just that.

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## The Problem

In today's enterprises, it is often very challenging to determine which devices or services can talk to which without just attempting the connections. It is even more challenging to allow for satellite offices or traveling executives or team members to connect back to office devices or services. The generally accepted way to do this is to provide VPN connections, but to permit access to multiple devices, VPN connectivity often bridges networks, exposing devices and services on either side to significant, undesirable risks. Furthermore, no solution allows for real-time, easy visibility into which systems or services have access to which.

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## The Solution

SmartLayer2™ or SL2™ solves all those problems and several others. By providing virtual SmartNodes™ on Microsoft Windows or DOS, Apple OSX or MacOS, GNU/Linux and other UNIX-like operating systems, embedded systems (e.g., Arduino-based systems) as well as SmartNode™ Dongles for other unsupported devices or devices on which new software may not be installed, and/or by using SmartHubs™, SL2™ can create, manage, revoke, and provide unparalleled visibility into specific hyper-secure ad-hoc networks that specify explicitly which devices, users, or services can interact with which. SL2™ provides these powerful control, privacy, security, and integrity features on a virtual, private, multi-layered, network in a manner that has surprisingly little impact to performance.

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## Current Versions

Current versions of SL2™ are in proof-of-concept phase. SmartPoints™ expects to have a working prototype with controls ready for testing in 2019.