



TOSIBOX®

WELCOME TO
TOSIBOX®

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TOSIBOX[®]

WHY TOSIBOX[®]?

1.

- Build a secure network in under 5 minutes
 - The infrastructure is set up within a few minutes, and does not require special IT skills. Also, management of devices and user groups is remarkably easy. Moreover, the connection is always formed in the same standardised manner.
- Tested & audited security - TOSIBOX[®] is globally audited, patented and performs at the highest security levels in the industry
- Scalable - TOSIBOX[®] system is infinitely scalable
- Reliable- TOSIBOX[®] works anywhere in the world with all types of devices regardless of the operators and type of internet connection.

TOSIBOX[®] TERMINOLOGY

TOSIBOX[®] Lock (Lock 100, Lock 200)

- Network device that uses the TOSIBOX[®] connection technology. Devices connect via Ethernet cables or wirelessly
- Built-in firewall, DHCP server and VPN functions
- Only a matched TOSIBOX[®] Key can form an encrypted connection remotely to a TOSIBOX[®] Lock

TOSIBOX[®] Key (Key 100, Key 200)

- USB device with cryptoprocessor using TOSIBOX[®] connection technology to form an encrypted connection to devices connected to TOSIBOX[®] Lock

TOSIBOX[®] Central Lock

Powerful connection hub for centrally managing and providing services for large scale environments

- Enables large amounts of secure, real-time Tosibox[®] connections (hundreds, even thousands)
- Enables providing centralised software solutions for field devices (e.g. strongly secured cloud services)
- Enables centralised and very versatile and easy to use access management for large user base
- Central Lock is available in two platforms: Rack Mount Hardware or a licensed virtualized environment for local or cloud deployments

Master Key

A Key having all rights, used for:

- matching new Locks
- creating Sub Keys
- managing access rights for the Sub Keys
- creating Backup Keys

Backup Key

Backup Key of the Master Key:

- Activated on the PC where Master Key is plugged in
- Backup Key has full access and matching rights
- Backup may be used for serialization or access permission setup instead of Master Key

Sub Key

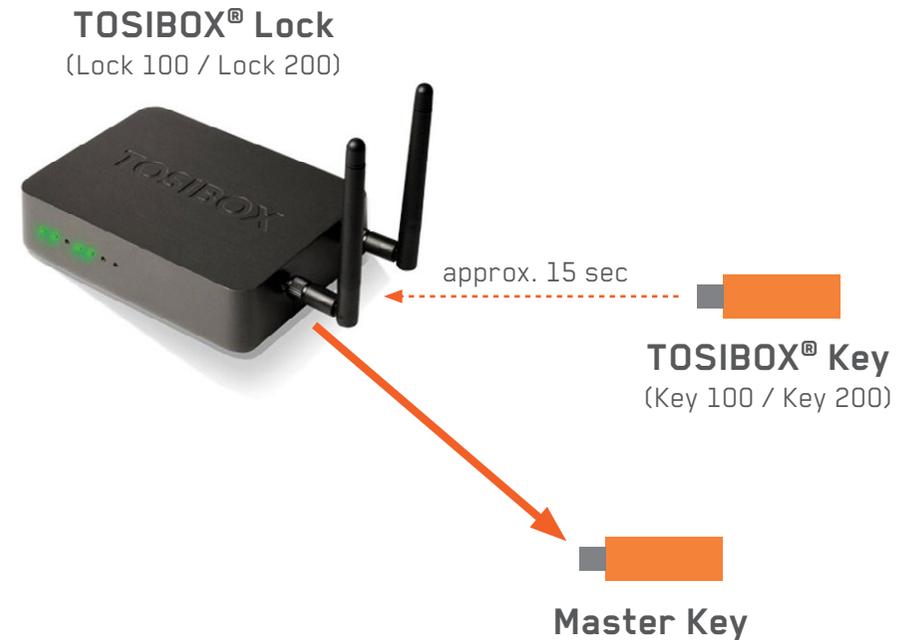
Sub Key to a Master Key:

- Cannot be used for matching new Locks
- Access rights managed by Master Key
- Can be a Sub Key to several Master Keys

INITIAL SETUP

Defining access rights

- Connect power to the new TOSIBOX® Lock you want to setup and wait for about 2 minutes for power up
- Connect a TOSIBOX® Key to the Lock's USB port for approx. 15 seconds
- Lock has now been matched with the Key, making it a Master Key for the connections to this Lock
- Master Key can access devices connected to Lock
- Master Key can be used for managing access rights for Sub Keys and for creating Backup Keys
- **Note! A Lock can only be matched once from the USB port. Plugging in another Key does not result anything.**



Connecting devices

- Connect devices to TOSIBOX® Lock LAN ports 1-3
- In case more devices need to be connected, connect an additional switch to LAN port and additional devices to the switch
- Connect TOSIBOX® Lock from WAN port to Internet
- You can also connect Lock to Internet using a supported 3G/4G modem in the USB port of the Lock
- Note: Devices should have IP addresses within the IP range on the lock nameplate. Alternatively the lock LAN can be configured via the service port to match the device IP network.
- Note: Basic VPN rules suggest Tosibox® LAN and WAN networks as well as the key network should all be different IP networks. This will prevent IP overlapping issues. Example:
WAN: 10.10.10.XXX
LAN: 192.168.2.XXX
Key: 192.168.100.XXX

Connected devices



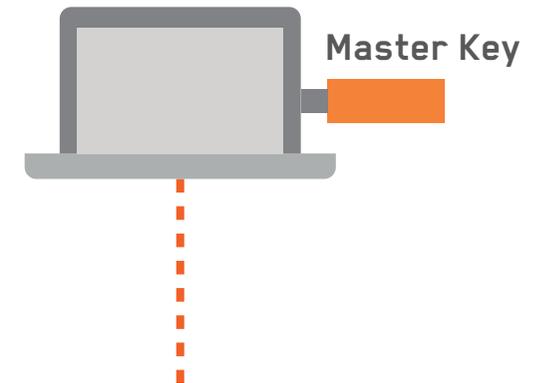
INITIAL SETUP

3.

Connecting to a device

- Plug in the Master Key to a PC or MAC
Select "Open folder" and run "Setup_Tosibox.exe"
to install TOSIBOX® Key software
- Matched Locks are visible on the User Interface
- Select "Connect" for any of your Locks.
- Key will form an encrypted VPN connection to the Lock
- When the connection is ready, devices will show up on the User Interface

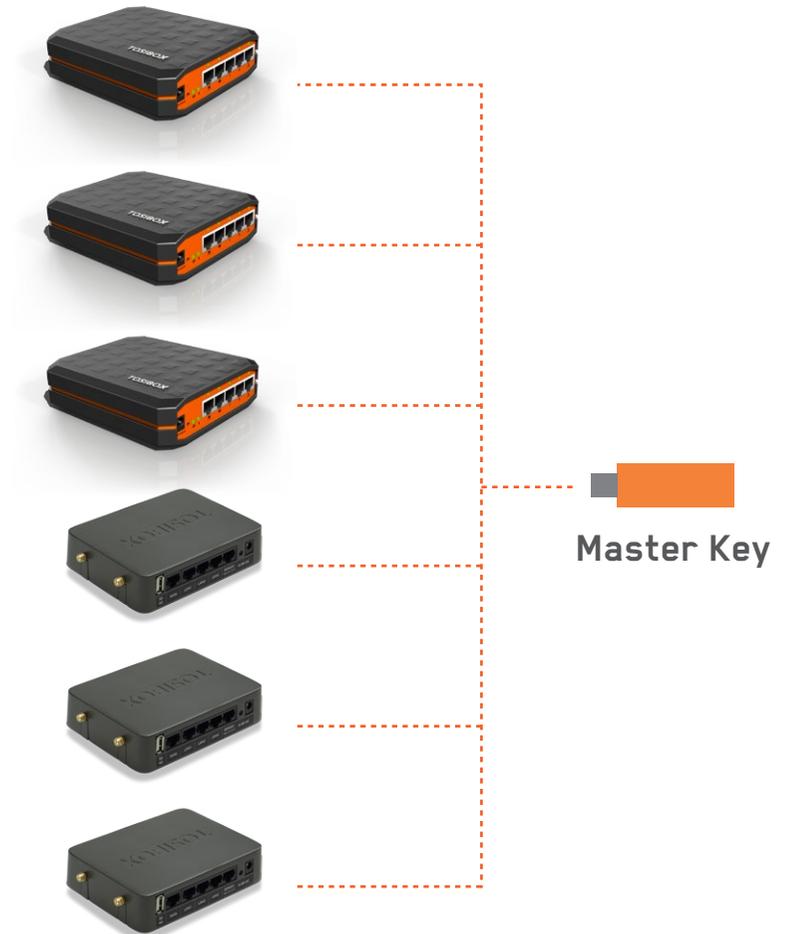
Your first device connection is ready!



ADDITIONAL LOCATIONS

Note! The same Key that was used for initial setup is used for additional locations (see picture)

- Connect power to the new TOSIBOX® Lock you want to setup and wait for about 2 mins for power up
- Connect a TOSIBOX® Key to the Lock's USB port for approx. 10 seconds
- Connect devices to TOSIBOX® Locks' LAN ports "1-3"
- Connect Master Key to PC USB port.
- Locks are visible on TOSIBOX® Key software and you can select "Connect" on one or several Locks. After the connection is formed, you can access the devices on Locks.



CREATING BACKUP KEY

5.

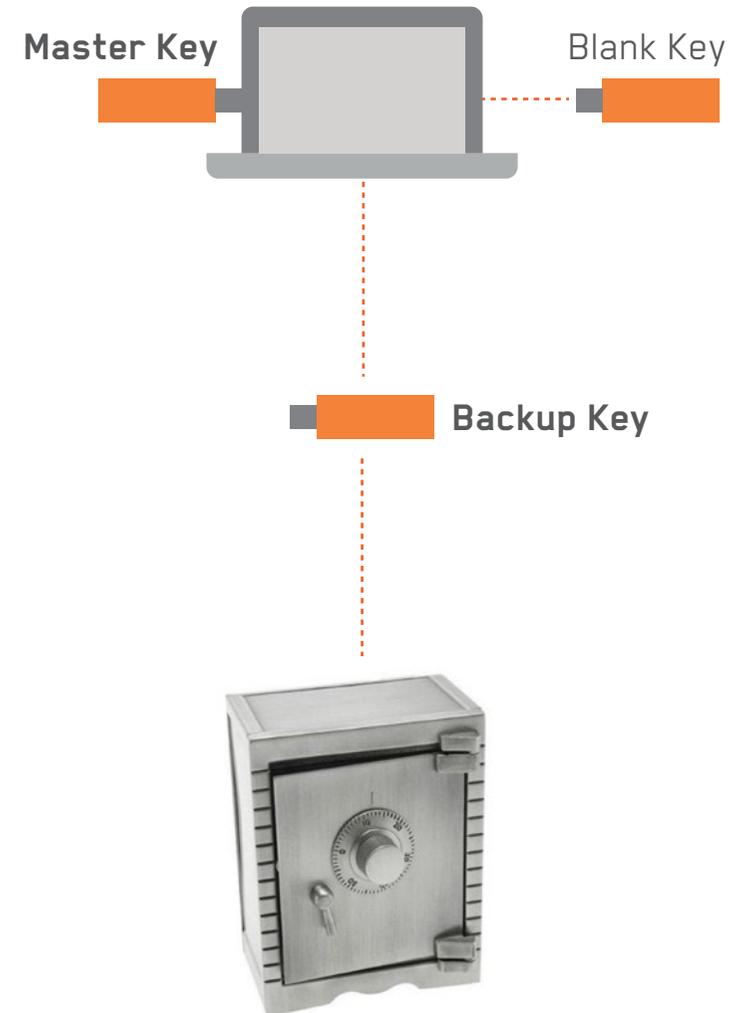
By creating a Backup Key you can:

- Ensure access to Locks even if Master Key is lost
- Eliminate risk for device failure

Note! You do not need to manually update Backup Key after it has been created. Access rights are synchronized from the Master Key automatically.

1. Get a blank TOSIBOX® Key
2. Connect Master Key to PC
3. Connect the blank key to another USB port on the same PC.
On the wizard that opens, select "Backup Key".
4. You can also create several Backup Keys if necessary

The information on Backup Key will update automatically when inserted on PC or MAC the next time

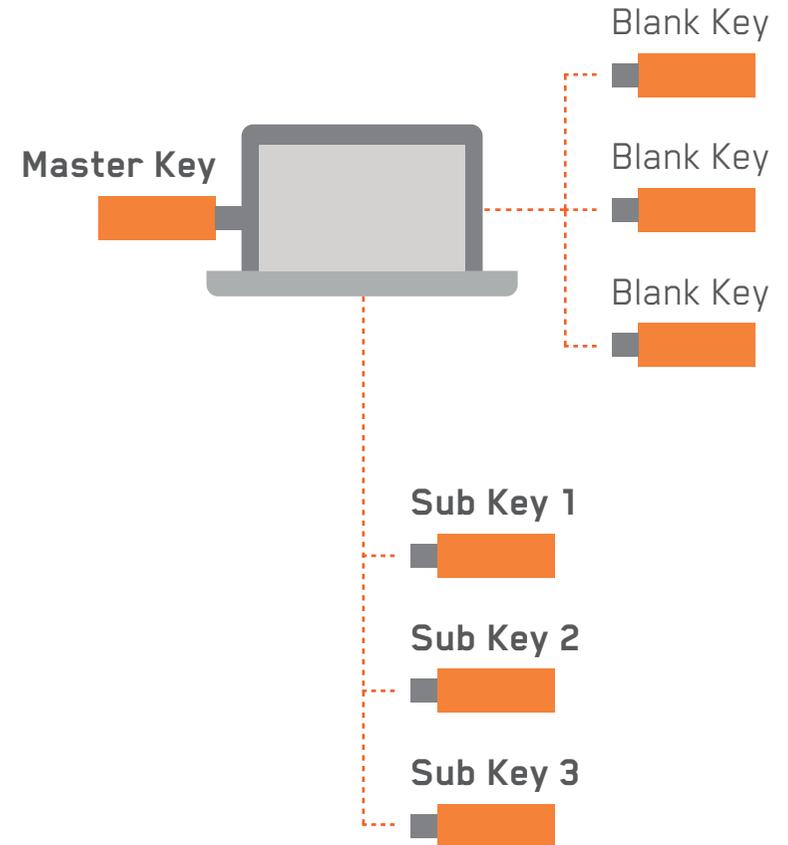


DEFINING ACCESS RIGHTS FOR ADDITIONAL USERS

- Connect Master Key to PC, then connect a blank TOSIBOX® Key
- On the wizard that opens select "Sub Key"
- Select the locations you want to grant access for the Sub Key
- The new Key becomes a "Sub Key" for the Master Key.

Note!

- Sub Key can only access locations allowed from Master Key. Sub Key cannot be used for setting up new Locks.
- Sub Key can be given access rights from several Master Keys if allowed from the first Master Key
- You can change Sub Key access rights from the Master Key remotely anytime (access to new locks, revoke access from existing Locks, etc.)



SETUP AND USE FOR AMOUNTS OF CONNECTIONS / CENTRAL LOCK INTRODUCTION

TOSIBOX® Central Lock is the hub for your TOSIBOX® VPN connections. Scalable concurrent VPN connections can easily be created and managed for remote maintenance, continuous data monitoring and data logging purposes. It brings all remote sites to a single point, and centrally manages user and access rights across the entire network in real-time. Scaling from single up to thousands of connections is possible at any time.

(Virtual) Central Lock functions:

- With Central Lock and always-on bidirectional VPN connections you can easily enable applications like data collection, continuous monitoring or remote maintenance.
- Possibility to collect audit log data (VPN connections opened/closed, web UI logins) from connected TOSIBOX® Locks
- Monitoring service for VPN connections, also system alerts can be triggered from system failures
- Improved and scalable centralized access management



TOSIBOX® Central Lock

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