

## Network-Communication: Required Ports & Domains

### Miniserver

- DNS
  - UDP Port 53
- mDNS
  - UDP 224.0.0.251:5353
- Search/Discovery
  - mDNS
  - Upnp
  - UDP Port 7070-7071
- Communication with App & Config
  - TCP Port 443
  - TCP Port [HTTP Port set in Miniserver settings]
- FTP
  - TCP Port 21 (Control)
  - TCP Port 20 (Data)
- Cloud - Outgoing connections
  - Weather Service
    - TCP weather.loxone.com:6066
  - Caller Service
    - TCP caller.loxone.com:80/443
  - Cloud-Mailer
    - TCP mail.loxonecloud.com:443
  - Cloud-DNS
    - UDP dns.loxonecloud.com:7700
  - Push
    - TCP push.loxonecloud.com:443
  - Remote Connect
    - MQTT Connection
      - TCP \*.ccbroker.loxonecloud.com:8443
    - SSH Tunneling Connection
      - TCP \*.loxonecloud.com:[Port]
      - **Attention:** Port is assigned randomly! (20000-65000)
      - Example: eu.ccd2.loxonecloud.com:30357
    - Data Center Request
      - TCP api.loxonecloud.com:443
  - Provisioning & Cloud Service Status
    - TCP api.loxonecloud.com:443

- Debug-Monitor
  - UDP Port 7777 (Default)
  - Port can be set in Config
- Auto-Update
  - TCP update.loxone.com:80/443
  - TCP updatefiles.loxone.com:80/443
- Crash-Log Server
  - UDP log.loxone.com:7707
- BacNET
  - UDP+TCP Port 47808

## Loxone Config

- Auto-Update
  - TCP update.loxone.com:80/443
  - TCP updatefiles.loxone.com:80/443
- Project Planning
  - Price List updates
  - TCP shop.loxone.com:443
- Local Connection to Miniserver
  - TCP Port 443
  - TCP Port [Defined HTTP Port]
- Remote Connection to Miniserver
  - TCP dns.loxonecloud.com:80/443
  - TCP \*.dyndns.loxonecloud.com:[Port]
    - **Attention:** Port is assigned randomly! (20000-65000)
- Geo-Coordinates
  - TCP geo.loxone.com:443
- Loxone-Library
  - Update of Templates and Template-Index
  - TCP api.library.loxone.com:443
- Data Center Request
  - Determination which loxonecloud.com data center the config should use for connecting to the Miniserver
  - TCP api.loxonecloud.com:443
- Documentation
  - TCP loxone.com:80/443

## App

- Local Connection to Miniserver
  - TCP Port 443
  - TCP Port [Defined HTTP Port]
- Detecting Remote Connection to Miniserver
  - TCP dns.loxonecloud.com:80/443

- Remote connection via Remote Connect
  - TCP \*.dyndns.loxonecloud.com:[Port]
    - **Attention:** Port is assigned randomly! (20000-65000)
- Remote connection via CloudDNS
  - [IP]:[Port]
  - **Attention:** Both the IP and the Port are dynamically provided by the , as configured on the Miniserver.
- Miniserver Search
  - UDP Port 7070-7071
  - Upnp
- Auto-Update
  - TCP update.loxone.com:80/443
  - TCP updatefiles.loxone.com:80/443
- News/Infos/Device-Documentation
  - TCP loxone.com:80/443
- Air/Tree Pairing- and Battery-Device-Information
  - TCP extended-app-content.s3.eu-central-1.amazonaws.com:443
- Push Service
  - TCP push.loxonecloud.com:443
- SIP (Intercom Audio)
  - UDP Ports
    - 5060 (default)

## Audioserver

- Search/Discovery
  - mDNS
  - Upnp
  - UDP Port 7070-7071
- Communication with Miniserver
  - TCP Port 7095
  - TCP Port 80
  - TCP Port 443
- Communication with App
  - TCP Port 7091
- Communication AudioStreams Audioserver <-> Audioserver
  - UDP Port 7788
  - UDP Ports 14000 - 14999
- General Communication Audioserver <-> Audio Extensions
  - Boot & NFS TCP + UDP 111,
  - Boot II TCP + UDP 2049
- Exception for internet radio streams:
  - All listening and request ports from / to radio stream stations are assigned dynamically, Radio station provider assigns the http / TCP streaming ports

## Loxone Intercom

- Search/Discovery
  - mDNS
  - Upnp
  - UDP Port 7070-7071
- Communication with Miniserver
  - TCP Port 7091
- Communication with App
  - TCP Port 7091
  - Video/Audio: UDP Ports are assigned dynamically
- Auto-Update
  - TCP update.loxone.com:80/443
  - TCP updatefiles.loxone.com:80/443

## Intercom Gen.1

- Search/Discovery
  - UDP Port 5000
  - UDP Port 8110 (Video-Module)
  - UDP Port 8112 (Audio-Module)
- Communication with Miniserver
  - UDP Port 8110 (Video-Module)
  - UDP Port 8111 (Video-Module)
  - UDP Port 8112 (Audio-Module)
  - UDP Port 8113 (Audio-Module)
- Communication with App
  - TCP Port 80