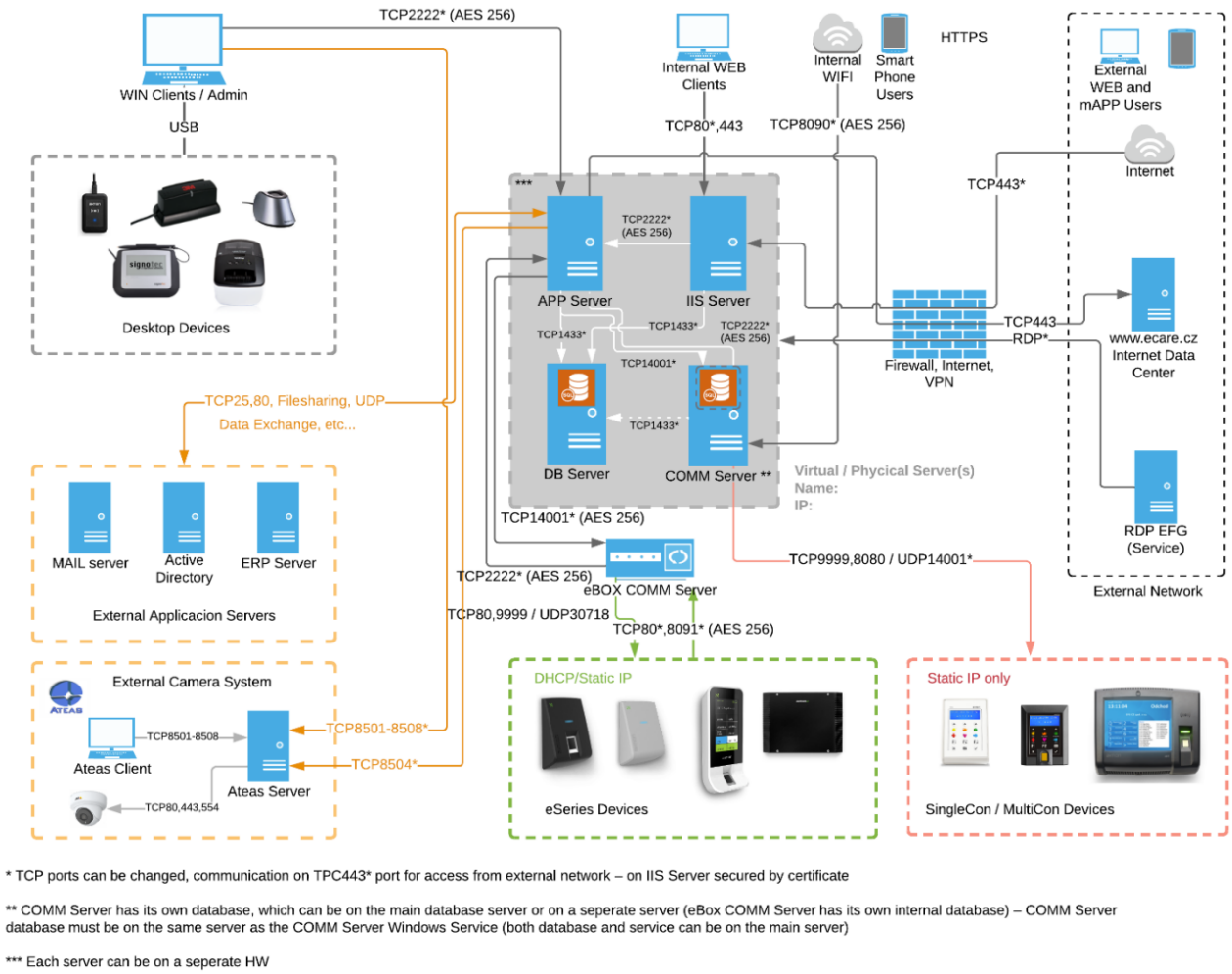
The recommended parameters for installation of Aktion.NEXT system

The recommended parameters for installation of the Aktion.NEXT

- Recommended minimum server parameters (DB/Application): 4×CPU, 16 GB RAM, 480 GB HDD, Windows Server 2022 64bit and higher
- Ability to run in a VMware and Hyper-V virtualized environment
- Windows Server with .NET Framework 4.8 or higher installed
- Installation size:
  - Attendance installation size: 450 MB, DB server MS-SQL: 250 MB
  - Expected data growth for 50 persons and 1–4 terminals: approx. 50 MB/month
  - Expected data growth for 500 persons and 5–10 terminals: approx. 200 MB/month
- Recommended minimum client parameters: 8 GB RAM, Windows 11
- Database server: MS-SQL 2025 (the free version SQL Server Express with a 50 GB per database is supplied as standard). For Aktion.NEXT 4.0 and later, the minimum supported version is MS-SQL 2012. Earlier Express editions (prior to 2025) have a limit 10 GB per database.
- The application server and clients are programmed in .NET 4.8 environment
- The application server runs as a Windows Service
- The client's communication with the application server runs via .NET Remoting, TCP channel
- The application server communication and DB server runs via ADO.NET
- The web client for data management and evaluation and Workflow, supported internet browsers: Edge, Chrome, Mozilla Firefox, Opera (actual version)
- Recommendation of building up the own V-LAN for connection of time attendance terminals and access controllers

The communication diagram of Aktion.NEXT



* TCP ports can be changed, communication on TPC443* port for access from external network – on IIS Server secured by certificate

** COMM Server has its own database, which can be on the main database server or on a seperate server (eBox COMM Server has its own internal database) – COMM Server database must be on the same server as the COMM Server Windows Service (both database and service can be on the main server)

*** Each server can be on a seperate HW

Note: The ports for the communication server and HW Aktion differ depending on the device used – this port can be found in the technical data sheet of the device, see technical support portal www.ecare.cz.

The implementation requirements for database and user server, remote access

DB user

The following database user rights are required for the installation and functionality of Aktion.NEXT:

- dbCreator – the required right for creation the database (the database can be created empty in advance if necessary, database collation = Czech_CI_AS)
- dbOwner – on the AktionNEXT database
- public role – on the master database
- symmetric master key – right for reading the key (if it is not possible to provide, the Aktion database must be on a separate database server), setting the right to symmetric master key FAQ (doc.aktion.cz/faq) *

*for certain configurations or interconnections are handled individually (SQL cluster with multiple

nodes, etc.)

Server user

- AD user or local admin user is required to install Aktion (installation, stopping services, IIS configuration)
- Required right to install applications
- preferably the same as the DB user (in case of Windows authentication to DB)

Remote access to the server

- VPN and RDP, TeamViewer, other
- Permanent access or on demand
- for installation and implementation, service and update, support

It is recommended to perform regular backups of the Aktion database.