

ePaper Passenger Information System

Server options



EPIS, introduced in 2014, is a stand-alone, low-power ePaper display system for real-time passenger information and timetables. Using E Ink display technology it enables remotely controlled timetable information. A smart and environmentally friendly solution, which can be powered 'off-the-grid' by solar panels with battery backup and MpicoSys-developed intelligent battery management system. MpicoSys also developed and introduced updates in below zero (upto -15 C) in 2014. Now benefit from years of experience on updating displays, introducing new displays, server setup and maintenance, data reduction and services.

Application programming interface

API is the acronym for Application Programming Interface, a software intermediary that allows two applications to talk to each other. Applications can be your CMS or customers Passenger Information Application connecting to EPIS server.

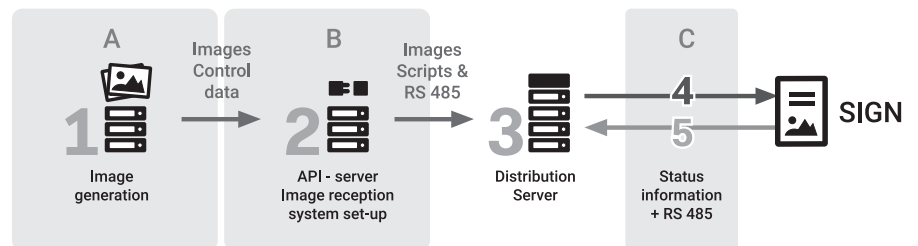
Five years of experience resulted in a very professional, easy to install API that easily connects your applications with MpicoSys servers that push information to and receive information from the communication units and displays, including additional features connected to the RS 485.

The EPIS API differs for the two server options, see below for features.

Contact sales@mpicosys.com for a detailed description of the EPIS API by MpicoSys.

- A MpicoSys creates images from content (e.g. GTFS)
- B1 MpicoSys provides a special RTI/ePis API that optimizes data usage and communication
- B2 MpicoSys provides a customized API that is customized for customer application
- C MpicoSys provides M2M Simcard for GSM connection (incl support)
- D MpicoSys provides custom extensions over the RS485 bus

Server options



Option

- Caching of Images at Graphic library at sign at Sign for data transfer reduction in communication

All server options will be supported from the MpicoSys support program.



Server configurations

- Dedicated Server**
- Extended API – additional features (data reduction for repetitive images)
 - Image partitioning and caching – for lower data rate
 - Scripting for sequencing images
 - Dedicated server installation
 - 3 server setup dedicated for customer – Cloud based
 - Operational server
 - Development / Backup server
 - Test server
 - Tools to port devices between servers
 - Managed by MpicoSys
 - Optional – Escrow for server take-over from MpicoSys in case of default
 - Extensions over RS485 supported

Dedicated installation NRE and premium SLA fees apply.

Data security: Pre shared key authentication server-sign

- Shared Server**
- Interactive interface (GUI) available
 - Simplified API
 - Send an image to the sign
 - Request status information
 - Shared Cloud server
 - One server setup used by multiple customers
 - Separation of data-streams by account/sign connection
 - HTTPS connectivity to API
 - Managed by MpicoSys

Standard SLA fees apply

Data security: Pre shared key authentication server-sign



Largest ePaper Passenger Information installation worldwide

MpicoSys has an established installed base since 2014 in Denmark, when updating ePaper displays in **below zero temperatures** was introduced. In the modern city of Copenhagen **more than 1.000** solar powered ePaper displays provide passenger information, updated by MpicoSys servers, **the largest installation worldwide.**



MpicoSys Low Power Innovators

A leading development and engineering company offering complete solutions in ultra-low-power and no-power technologies. Well known for its experience in contactless data and power technologies, as well as for mastering of applications of ePaper displays in products and services. MpicoSys technology is used in hundreds of thousands of electronic shelf labels, luggage tags and other custom products.

MpicoSys ensures systems and data security, offering advanced cryptographic authentication and authorization for ultimate protection. A worldwide network of partners and suppliers, including industry leaders in various markets, enable fast and high quality market entry of innovative products and services.

Please contact:
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www.mpicosys.com