

icom Router Management (iRM)

Manage and operate communication devices and configurations globally



High-efficiency, low-cost management and updates for routers by INSYS icom

Software runs your features

Digitalisation allows monitoring, administration and remote operation of facilities, plants and infrastructure securely and from any location. Since reliability and functions are largely defined by software, there are many good reasons to keep operating systems, configurations, or applications up to date: You might need to adjust settings, update parameters, implement new features, address known vulnerabilities, follow required regulations, or meet certification criteria.

Custom or mass updates

INSYS icom communication devices can easily be updated remotely, based on multiple criteria, in a flexible and terminable fashion, and without requiring any technician to be on site, and providing you with

comprehensive logging. You can either execute a mass update across any population, or create granular update packages for specific devices. iRM allows rolling out firmware, configurations, certificates and apps where, when and how you want, at minimum cost and efforts.

iRM is available for all INSYS icom router series with icom OS. The solution operates based on an ISO-certified cloud solution and a comfortable web interface. You may want to consider the Server Edition for on premises deployment, should you require tying into existing IT systems and processes, e.g. for certification of critical infrastructure. The Data Center Edition answers to the requirements of very large environments by offering technology and scalability addons.

Your advantages

- **Cost reduction** in terms of TCO, and by not requiring service providers
- **Simply installation**, licensing, setup and administration
- **Time savings** by browser-based management
- **Granular control** features for flexibility and accommodation of update processes
- Almost unlimited **scalability**
- **Security** precautions
- Add and extend on-site features (**Edge Computing**)
- Integrate with IT update processes via **APIs**

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Editions overview

Cloud - 1 to 20.000+ devices	Server - 500 to 1.500 devices	Data Center - 1.000 to 20.000+ devices
<ul style="list-style-type: none"> ■ Setup within minutes ■ Fast registration of routers ■ No additional cost for installation or maintenance ■ Web-Services API (REST) 	<ul style="list-style-type: none"> ■ Operation on premises ■ Suitable for critical infrastructure (KRITIS) ■ Includes infrastructure components to install and operate router management ■ Meets most corporate IT requirements 	<ul style="list-style-type: none"> ■ Scalable to huge and complex network environments ■ Accommodates load balancers, proxy servers, redundancy ■ Flexible to replace default components with customer-specific IT requirements

Necessary Infrastructure

ISO27001 certified data centre in Germany	Customer solution based on Linux or Windows	Linux Kubernetes Cluster, Azure AKS, Google GKE, Amazon EKS as hybrid solution, Postgres database server and S3-compatible storage. Customer specific furnishing.
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Technical Features

<ul style="list-style-type: none"> ■ Browser-based <ul style="list-style-type: none"> - Web portal, English and German, using https - For setup and maintenance - User profile and organisation management ■ Monitoring and administration <ul style="list-style-type: none"> - Online status of routers in device list - Groups, filters and search help sort and select routers - Router event details provide recent update history ■ Fast and transparent updates <ul style="list-style-type: none"> - On-demand updates (after-hour maintenance) - Specific updates can be realised through command line interface templates ■ Meets corporate IT requirements <ul style="list-style-type: none"> - Web services APIs available to integrate with existing update workflows - IT compatibility with OT integration ■ Updating of all aspects of software <ul style="list-style-type: none"> - Firmware / router OS - Configurations - Security certificates - Applications through updates of Linux containers (edge computing) 	<ul style="list-style-type: none"> ■ Online resource management <ul style="list-style-type: none"> - Pre-populated with certified firmware to protect against data tampering - Separate router update creation from update execution - Router update history helps diagnose network problems ■ Complex updates made easy <ul style="list-style-type: none"> - Mass update the entire router population - Individual updating - Design and store custom update packets that include a mix of update file types - Sample configurations available - Container software offer advanced update possibilities ■ Robust security concept <ul style="list-style-type: none"> - Public Key infrastructure - WebSocket protocol - IT-proven procedures for maintaining secure operation <p><small>* Pls refer to iRM product and service description and to the general T&C from INSYS MICROELECTRONICS GmbH which determinate the business conditions</small></p>
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