



# i-Vu® Building Automation System

## i-Vu Cloud



The Carrier i-Vu Cloud solution bring deployment flexibility to customers while helping them scale for growth and reduce their support burden. Powered by the technology, security, and infrastructure of Amazon Web Services (AWS), i-Vu Cloud provides a predictable cost of ownership. It includes cloud-hosting, server maintenance, i-Vu site reliability monitoring, database redundancy and backups. Also included are software upgrades eliminating the need for customers to install, configure, and manage a building automation server in the building. There is no costly IT infrastructure to maintain, and IT compliance directives for the server - including reliability, security, and uptime - are managed by Carrier.



**Patched**

**Backed Up**



**Secure**

**Authenticated**

### Key Features and Benefits

The i-Vu Cloud system provides quality control and energy management, all with the peace-of-mind knowing that i-Vu Cloud uses BACnet Secure Connect and/or VPN to encrypt network communications and keep the building automation networks secure. i-Vu Cloud includes all the features of the i-Vu Pro system plus:

- BACnet Secure Connect (BACnet/SC), and/or VPN tunnel provides server-to-network encryption to keep the BAS network secure
- VPN tunnel provides a smooth path to the cloud for existing customers, eliminating complex network configuration changes
- Provided by AWS:
  - Assured Server Uptime
  - Triple datacenter redundancy
  - Daily database backups
  - GuardDuty threat detection service
- Internet Protocol Versions IPv6 and IPv4 are supported
- Pair with i-Vu add-ons to add more capability and value to your i-Vu system. Some of the available add-ons are:
  - Abound™ Predictive Insights
  - Hourly Weather
  - Automated Demand Response
  - BACnet® Scheduling Interface
  - Microsoft® Exchange Scheduling
  - Trend Export



**i-Vu Add-on**

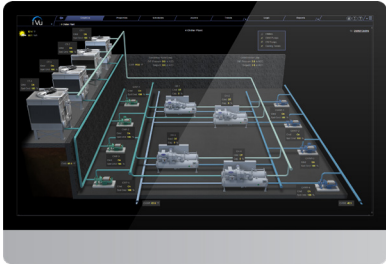
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### SPECIFICATIONS

| CLIENT REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Mobile Devices:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Smart Phones                                                                                                                                                | Android™, iOS                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tablets                                                                                                                                                     | Android, iOS, Surface™                                                                         |
| Computers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Computer operating system                                                                                                                                   | Supports these web brows                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Windows                                                                                                                                                     | Google™ Chrome™ v84 or later<br>Microsoft® Edge v84 or later<br>Mozilla® Firefox® v79 or later |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mac OS X<br>(Apple Mac only)                                                                                                                                | Safari® v11 or later<br>Google Chrome v84 or later<br>Mozilla Firefox v79 or later             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Linux                                                                                                                                                       | Google Chrome v84 or later<br>Mozilla Firefox v79 or later                                     |
| COMMUNICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                             |                                                                                                |
| BACnet:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BACnet Secure Connect (BACnet/SC) secure, encrypted datalink layer<br>BACnet Protocol Revision 19 Compliant<br>BACnet Advanced Operator Workstation (B-AWS) |                                                                                                |
| VPN Tunnel:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A VPN-capable router installed on the customer network that is compatible with the AWS VPN gateway                                                          |                                                                                                |
| I-Vu SECURITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                             |                                                                                                |
| Security:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BACnet Secure Connect (BACnet/SC) secure, encrypted datalink layer                                                                                          |                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Supports TLS (Transport Layer Security) v1.3 with 256 bit encryption between client and i-Vu server                                                         |                                                                                                |
| AWS CLOUD SECURITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                |
| <p>Comprehensive Security and Compliance Controls</p> <p>AWS regularly achieves third-party validation for thousands of global compliance requirements that are continually monitored to help you meet security and compliance standards. AWS supports PCI-DSS, HIPAA /HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171, helping satisfy compliance requirements for virtually every regulatory agency around the globe. For the latest AWS security standards visit: <a href="https://aws.amazon.com/security">https://aws.amazon.com/security</a></p> |                                                                                                                                                             |                                                                                                |



### PRODUCT VERSIONS

| SKU          | Description                                                                                          |
|--------------|------------------------------------------------------------------------------------------------------|
| CIV-OPNPRC   | i-Vu Cloud - 20 Users, 3 BACnet/SC connections, up to 150 Controllers/Gateways/Routers, 40GB storage |
| CIV-OPNPRCUG | Used when upgrading i-Vu to i-Vu Cloud                                                               |