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# *Power Manage IV*

## Security management platform



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for alarm security system

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# History and the case of IP

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*In 2006 increasing number of security service companies are migrated from PSTN to IP based technology for transmission of alarm notification data.*

*The desire are:*

-  significant cost saving
-  better usability and services
-  expand into new advanced services

*Power Manage is designed to be IP based security management platform*

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# All-in-One Platform

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*Power Manage is a unique IP receiver, management and interactive platform that enables alarm central station to get maximum benefit from using IP technology for monitoring premises, designed to be enterprise ready:*

- Software **receiver** solution



- Day-to-day technical **resolve** solution



- End-user/Installer **interactive** solution



# List of Services



# Connected Systems Support

## Current Offering



## Power G



## Power Code



# Connected Systems Support

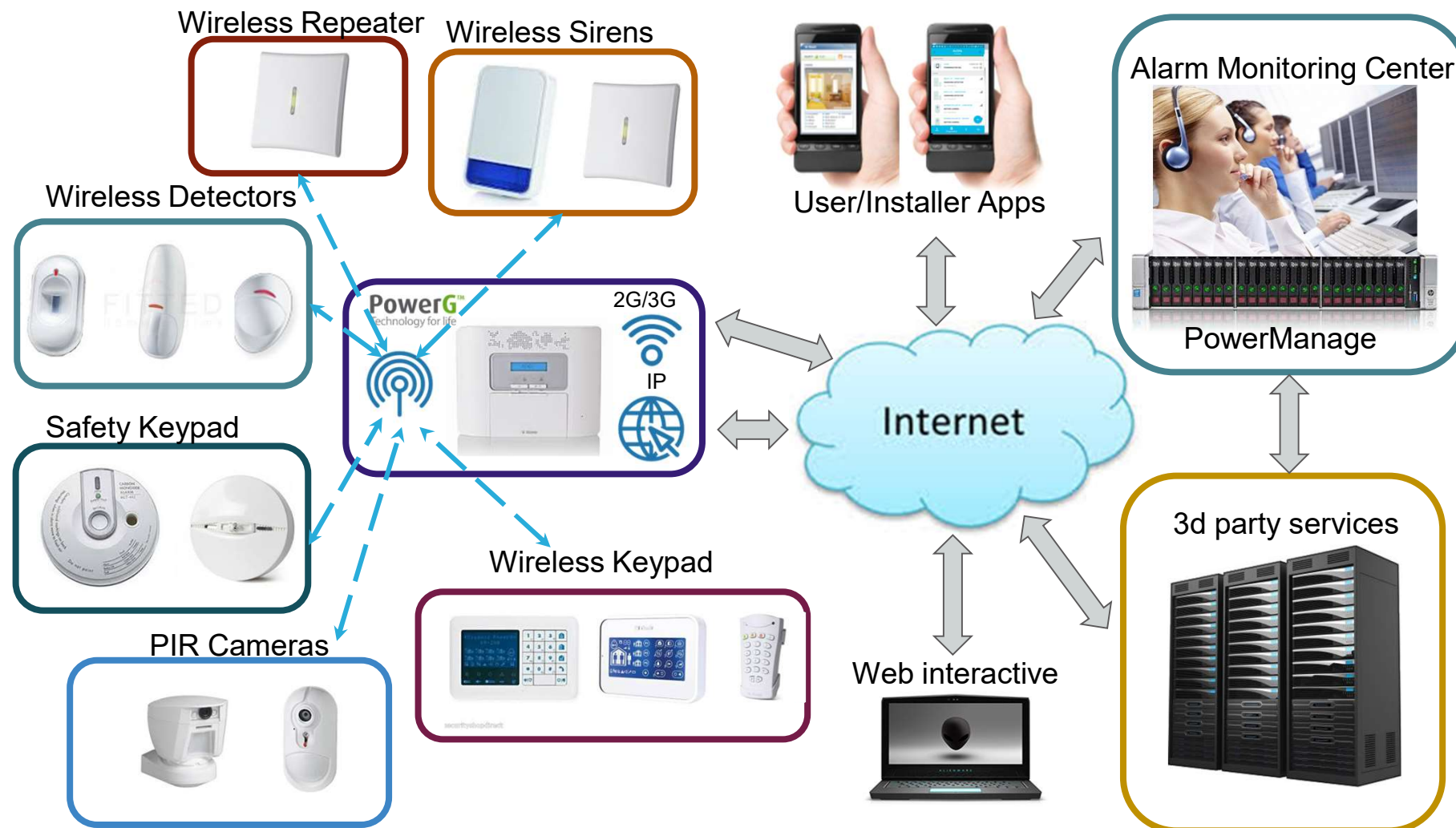
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Neo

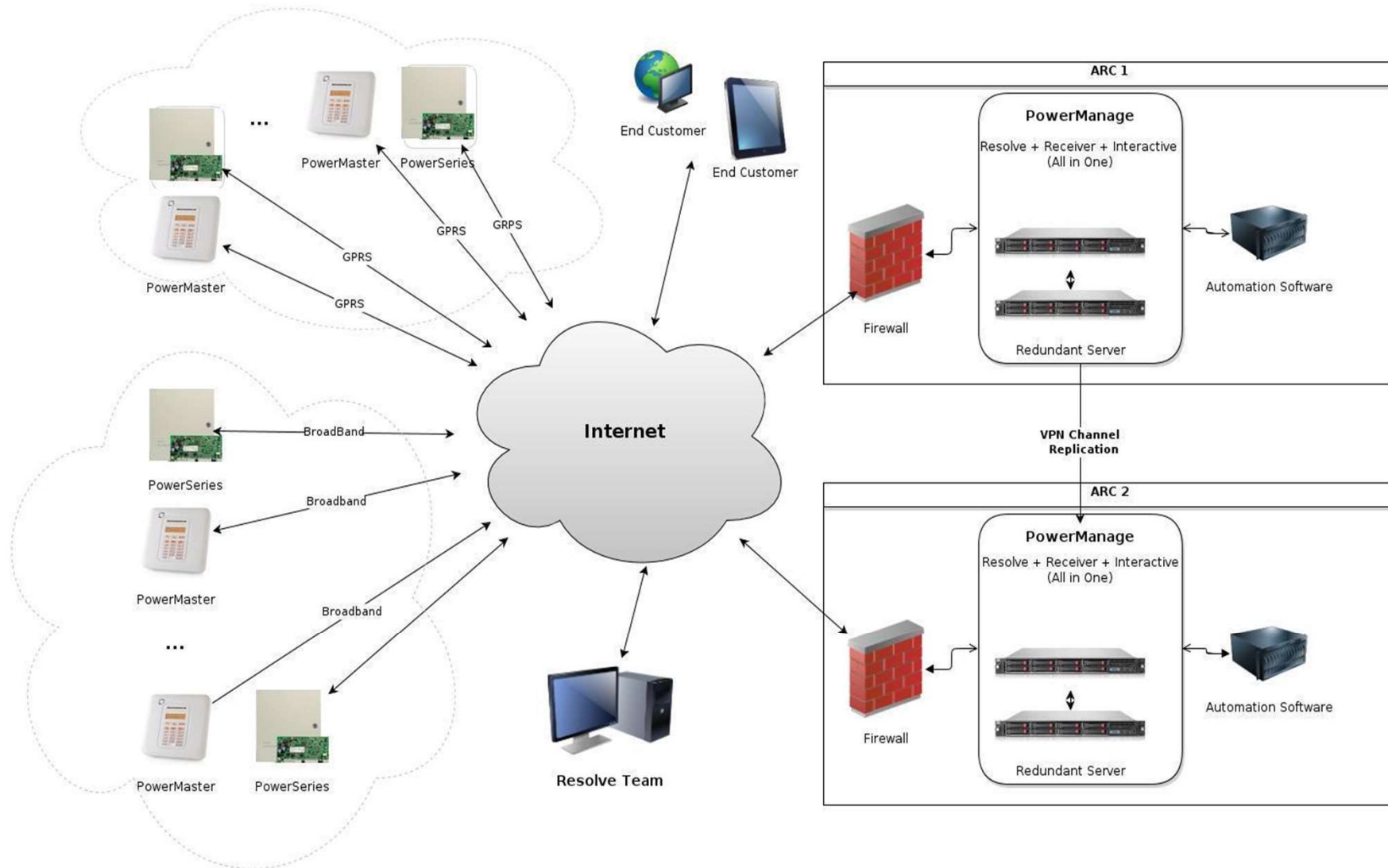


# Solution Connection Diagram





# Solution Network Diagram





# Platform Benefits

- **Field proven** - installed in over 800 monitoring station, including some telcos
- **Field proven** - Linux based platform used by giants such as google and telcos
- **Flexible Web technology** - fast development of new features, accessible anytime and anywhere
- **Carrier-grade hardware from HP/Dell** - less HW maintenance, scalable
- **Large capacity with single machine** - perhaps the lowest prices receiver per monitoring system
- **Hot-Backup** - GEO redundancy, zero down time



# Design Philosophy

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*Designed to support **horizontal scalability** - the ability to connect multiple hardware or software entities, so that they work as a single logical unit.*



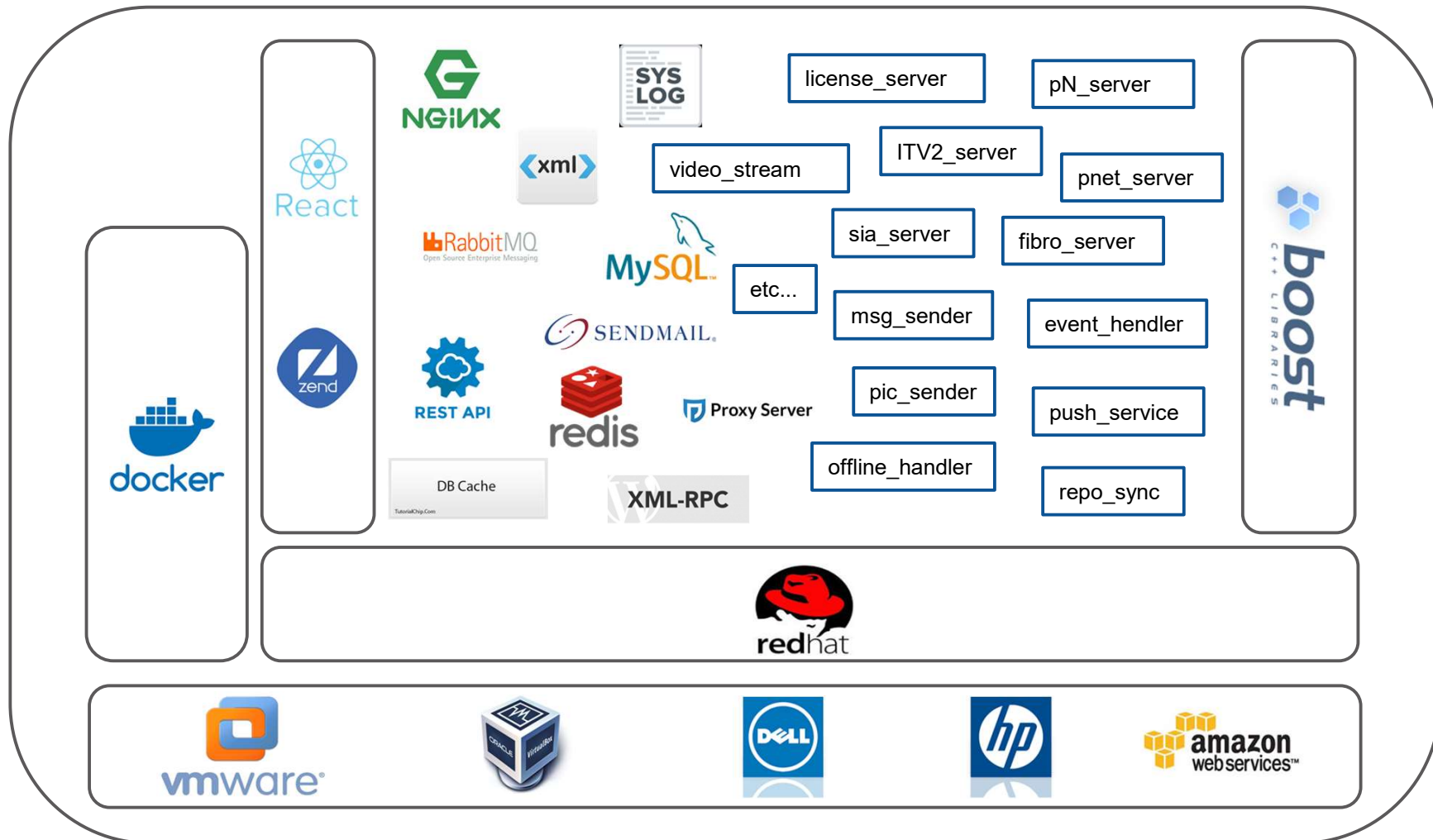
*Designed to be **modular** - simple modules connected by well defined interfaces, so some modules can be replaced in future version to support new features.*



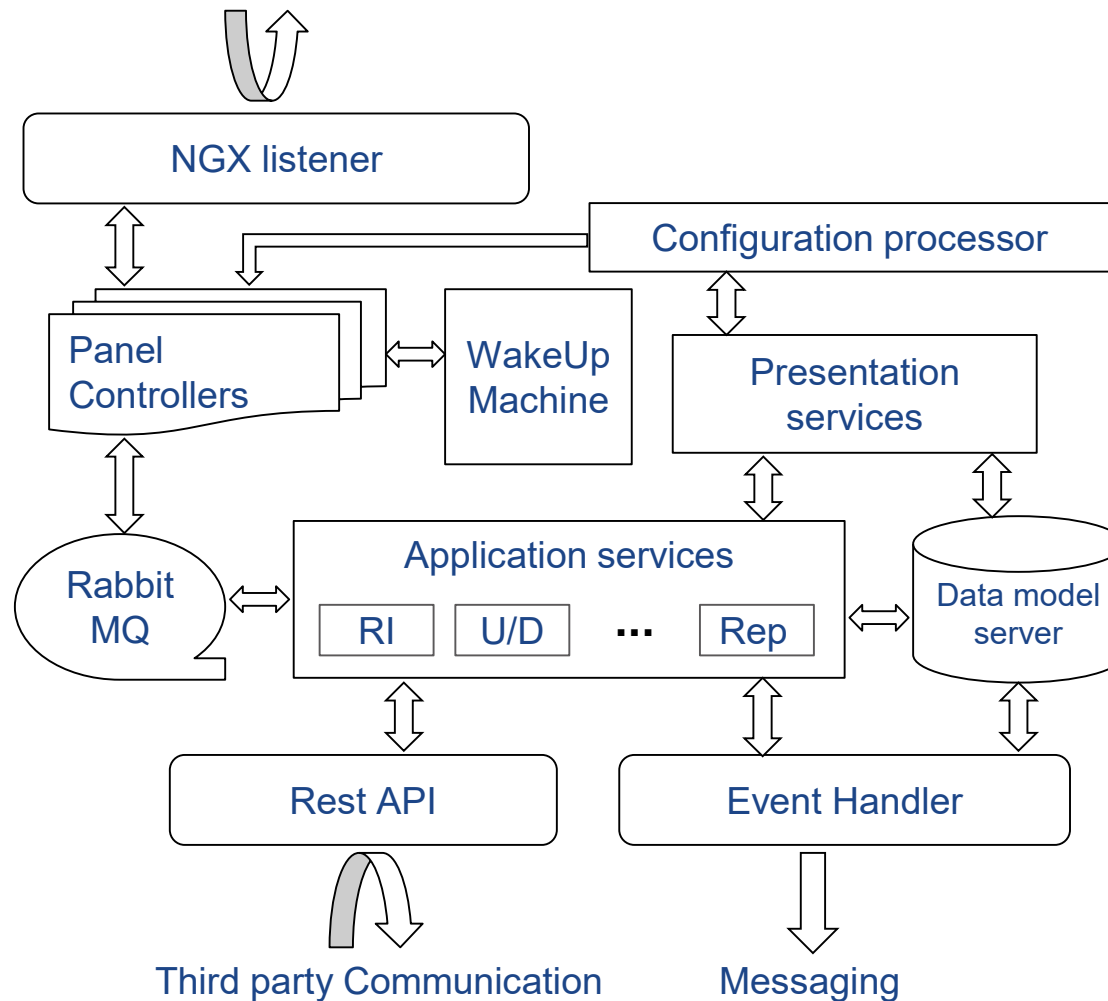
*Has a lot of ready-to-use **open sources** off the shelf software components to deliver new product quickly, many useful online resources, freedom to choose several technical alternatives.*

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# Platform stack



# Software Architecture



- *Classical Unix/Linux environment*
- *Written in a mix of languages:*
  - *C/C++*
  - *Golang*
  - *Bash/Python*
  - *PHP/Javascript*
- *Use mix of libraries and frameworks:*
  - *Boost*
  - *ACE*
  - *Zend*
  - *Dojo*
  - *React*

# High availability

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- *Geographic Redundancy further increases the reliability of Power Manage 4 system by providing a remote system to serve as a backup for a local system. Depending on the configuration, the remote backup system ensures continued service for resources in the event of a catastrophic failure, such as damage to equipment caused by floods, fire, etc.*
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