Patent Portfolio Offering

Verizon

Home Monitoring, Automation & Control

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1. Opportunity Overview

2. Patent Portfolio Details

3. Transaction Process
Home Monitoring, Automation & Control

The portfolio includes important capabilities:

A. Home control dashboard integrating security and home control capabilities
B. Remote video camera monitoring and control in response to a ‘user’ emergency command
C. Customization of home automation and control configuration
D. Real-time monitoring of remote heterogeneous sensors
Global Home Security: $47.5B by 2020

• The global home security solutions market was valued at $28.3 billion in 2014 and is forecast to increase to $47.5 billion by 2020, according to a report published by research firm Markets and Markets. The compound annual growth rate (CAGR) for home security is projected to be 8.7% between 2015 and 2020.

• In terms of geography, the Americas accounted for the largest market share of ~61% in 2014, followed by Asia and Pacific (APAC) with ~21%.

http://www.securitysales.com/article/forecast_global_home_security_market_to_be_worth_47.5b_by_2020/research
Automation/Control: $12.25B by 2020

• The home automation and control market was valued at USD 5.77 Billion in 2013 and is expected to grow at a CAGR of 11.36% between 2014 and 2020.

• This includes: Lighting Control, Access Control, HVAC Control, and Entertainment Control.
Exemplary Home Security and Automation/Control Solution Companies

- Alarm.Com
- ATT
- ABB
- Allegion PLC
- Control4 Corporation
- Crestron Electronics
- Cytech Technology Pte. Ltd
- Godrej & Boyce Manufacturing Company Limited
- Honeywell International
- Ingersoll-Rand

- Johnson Controls
- Legrand S.A.
- Nortek Security & Control LLC
- Protect America
- Protection1
- Robert Bosch GmbH
- Schneider Electric SA
- Siemens AG
- United Security Systems
- United Technologies Corp
- TYCO - ADT
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# Verizon Home Monitoring & Security

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* = per Google Patents
(A) Home control dashboard integrating security and home control capabilities
1) US Patent 8,375,118 – Smart home device management

Priority: 2010-11-18; Expires: 2031-02-16

Abstract: A mobile communication device receives information associated with multiple home devices, and generates, based on the home device information, a connected home dashboard that includes a home device item, a modes item, a monitoring item, a security item, and a notifications item. The mobile communication device also provides the connected home dashboard for display to a user, and receives, from the user, a selection of one of the home device item, the modes item, the monitoring item, the security item, or the notifications item. The mobile communication device further provides, based on the home device information and for display to the user, information associated with the selected item.

- 21 total claims (4 Independent claims).
- Exemplary Claim 13:
  A mobile communication device, comprising: a memory to store a plurality of instructions; and a processor to execute instructions in the memory to:
  - receive information associated with a plurality of home devices,
  - generate, based on the home device information, a connected home dashboard that includes a single interface for presenting:
    - each of a home device item, a modes item, a monitoring item, a security item, an energy item, and a notifications item, and
    - status information indicative of a change, and an associated time, to a state of one or more of the plurality of home devices in response to user interaction via different ones of the items;
  - provide the connected home dashboard for display to a user,
  - receive, from the user, a selection of one of the home device item, the modes item, the monitoring item, the security item, the energy item, or the notifications item, and
  - provide, based on the home device information and for display to the user, information associated with the selection.
(B) Remote video camera monitoring in response to a User Emergency
2) US Patent 7,916,174 – System and method for remotely controlling a camera

Priority: 2009-09-18; Expires: 2031-03-27

Abstract: A system and method for remotely controlling a camera may include a telephony device communicatively coupled to a data network. The telephony device comprises at least one module adapted to generate a control signal in response to receiving a user command associated with dialing of an emergency telephone number. A camera may be adapted to start capturing images in response of receiving the control signal.

- 10 total claims (1 Independent claims).
- Exemplary Claim 1:
  A method, comprising: generating a control signal using a telephony device, for at least one camera, in response to receiving a user command associated with dialing of an emergency telephone number;
- transmitting the control signal to the at least one camera, wherein the control signal causes the at least one camera to start capturing images;
- receiving images from the at least one camera;
- receiving a request to transmit the images from the at least one camera to at least one media server;
- buffering the images prior to establishment of a data connection to transmit the images to the at least one media server;
- establishing, from the telephony device communicatively coupled to the at least one camera, the data connection to the at least one media server;
- transmitting the images from the at least one camera to the at least one media server via the data connection;
- receiving a request, at the telephony device from the at least one media server, to manipulate the camera;
- transmitting the request to manipulate the camera from the telephony device to the at least one camera; and
- manipulating the at least one camera in response to the request to manipulate the camera.
3) US Patent 8,593,527 – System and method for remotely monitoring a camera using a telephony device

Priority: 2009-09-18; Expires: 2028-01-31

Abstract: A system and method for remotely controlling a camera may include a telephony device communicatively coupled to a data network. The telephony device comprises at least one module adapted to generate a control signal in response to receiving a user command associated with dialing of an emergency telephone number. A camera may be adapted to start capturing images in response of receiving the control signal.

• 9 total claims (1 Independent claim).
• Exemplary Claim 1:
  A system, comprising: a camera adapted to capture images in response to receiving a control signal; and a telephony device communicatively coupled to a data network, wherein the telephony device comprises at least one module that includes:
  • a utility controller that generates the control signal for the camera in response to receiving a user command associated with dialing of an emergency telephone number, transmits the control signal to the camera, wherein the control signal causes the camera to capture images, receives a request from at least one media server to manipulate the camera, transmits to the camera the request to manipulate the camera, and manipulates the camera in response to the request to manipulate the camera;
  • a network controller that receives the images transmitted by the camera, and receives a request to transmit images from the camera to the at least one media server; and
  • a media processing controller that buffers the images, establishes a data connection to the at least one media server after the images are buffered, and transmits the buffered images from the camera to the at least one media server via the data connection.
(C) Customization of home automation and control configuration
4) US Patent 8,310,335 – Network-based access and control of home automation systems

Priority: 2007-09-07; Expires: 2030-05-25

Abstract: A device may include a memory to store a home automation graphical application and a processor to operate based on the home automation graphical application to establish via a network a communication link with a home automation system, and provide a graphical user interface to permit a user to view state information of home devices or modify home automation configuration data to control home devices.

- 18 total claims (3 Independent claims).
- Exemplary Claim 1:
  
  A device, comprising: a memory to store a graphical application associated with an automation system; a processor to execute the graphical application to:
  
  - establish, via a network, a communication link with a node having configuration data associated with the automation system, where the configuration data controls at least one device, associated with a user, in communication with the automation system, the at least one device being located at a location that is associated with the user,
  
  - receive, via the network, and from the node, the configuration data associated with the automation system,
  
  - provide, based on the received configuration data, a graphical user interface,
  
  - detect, via the graphical user interface, selection, from the user, of information identifying a particular region associated with the location,
  
  - receive, from the user via the graphical user interface, one or more modifications to the configuration data to obtain modified configuration data that controls the at least one device, where, when receiving the one or more modifications, the processor is to: detect, from the user via the graphical user interface, selection of at least one user-defined icon, that is identified based on a type of the at least one device, to represent the at least one device,
  
  - provide, via the graphical user interface, a template of a room that corresponds to a room associated with the particular region, and
  
  - receive, from the user via the graphical user interface: input associated with moving the at least one user-defined icon to a position in the template that corresponds to a position of the at least one device in the particular region, and
  
  - parameters associated with an operation of the at least one device, and
  
  - store, on the node, via the network, the modified configuration data.
5) US Patent 8,594,980 – Method and apparatus of template model view generation for home monitoring and control

Priority: 2009-09-18; Expires: 2031-03-27

Abstract: An approach is provided for template model view generation for home monitor and control interface. A platform receives a model view specified by a user, where the model view includes a floor plan of a premise. The platform generates a template model view based on the received model view by removing identifying information associated with the user. Also, the platform stores the template model view for access by another user, where the template model view is used to capture location information of one or more sensors or one or more actuators within the floor plan.

• 18 total claims (3 Independent claims).

Exemplary Claim 9:

An apparatus comprising: a processor configured:

• to receive a model view specified by a user, wherein the model view includes a floor plan of a premise that corresponds to the user, and the model view further includes location information of one or more sensors or one or more actuators that have been identified by the user as being within the floor plan of the premises corresponding to the user,

• to generate a template model view based on the received model view by removing identifying information associated with the user,

• to store the template model view for access by another user, wherein the template model view is used by the other user to identify location information of one or more sensors or one or more actuators within the floor plan that corresponds to a premises of the other user,

• to compare the template model view with stored templates, and

• to classify the template model view based on the comparison,

wherein removing identifying information associated with the user includes removing the location information of the one or more sensors or one or the more actuators that have been identified by the user as being within the floor plan of the premises corresponding to the user.
(D) Real-time monitoring of heterogeneous sensors
6) US Patent 8,125,328 – System and method for providing remote monitoring services

Priority: 2009-02-20; Expires: 2029-02-20

Abstract: An approach is provided for a managed heterogeneous sensor service. A plurality of signals are received over a communication network from, respectively, a plurality of heterogeneous sensors. A plurality of instant communication sessions are established over the communication network corresponding to each of the sensors. Presence of each of the sensors is indicated over the instant communication sessions. Sensor data is generated in response to the received signals. The sensor data is transmitted over the corresponding instant communication sessions.

• 23 total claims (3 Independent claims).
• Exemplary claims:
  10. An apparatus comprising:
     a communication interface configured to establish a plurality of instant communication
     sessions, each corresponding to a respective one of a plurality of heterogeneous sensors,
     and to receive a plurality of signals from, respectively, the plurality of sensors; and
     a processor configured to generate sensor data for each of the respective sensors in
     response to the received signals, and to communicate, over each of the instant
     communication sessions, a presence of the respective sensor, wherein the presence
     indicates the respective sensor data.
  11. An apparatus according to claim 10, wherein the sensor data is stored in a repository.
  12. An apparatus according to claim 11, wherein the sensor data is transmitted to an end user
     device that includes a multimedia device, a wireless terminal, a mobile terminal, a personal
     computer, or a portable computer.
  13. An apparatus according to claim 10, wherein the communication interface is further
     configured to receive a report request from an end user device, and the processor is further
     configured to, in response to the report request, generate a report based on the sensor data
     for transmission to the end user device.
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3. Transaction Process
Transaction Parameters and Objectives

• Verizon is seeking the sale of these assets and their future benefits, and is actively seeking bidders.

• This presentation and other supporting public materials are available for download at:

  www.pluritas.com/campaigns/verizon_home_monitoring.shtml

• Seller requires a license back, and there is a short-list of additional encumbrances.

• There is additional information available under NDA.
For More Information

- For more information, please contact:

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