

## OnStar at Home Pilot Fact Sheet

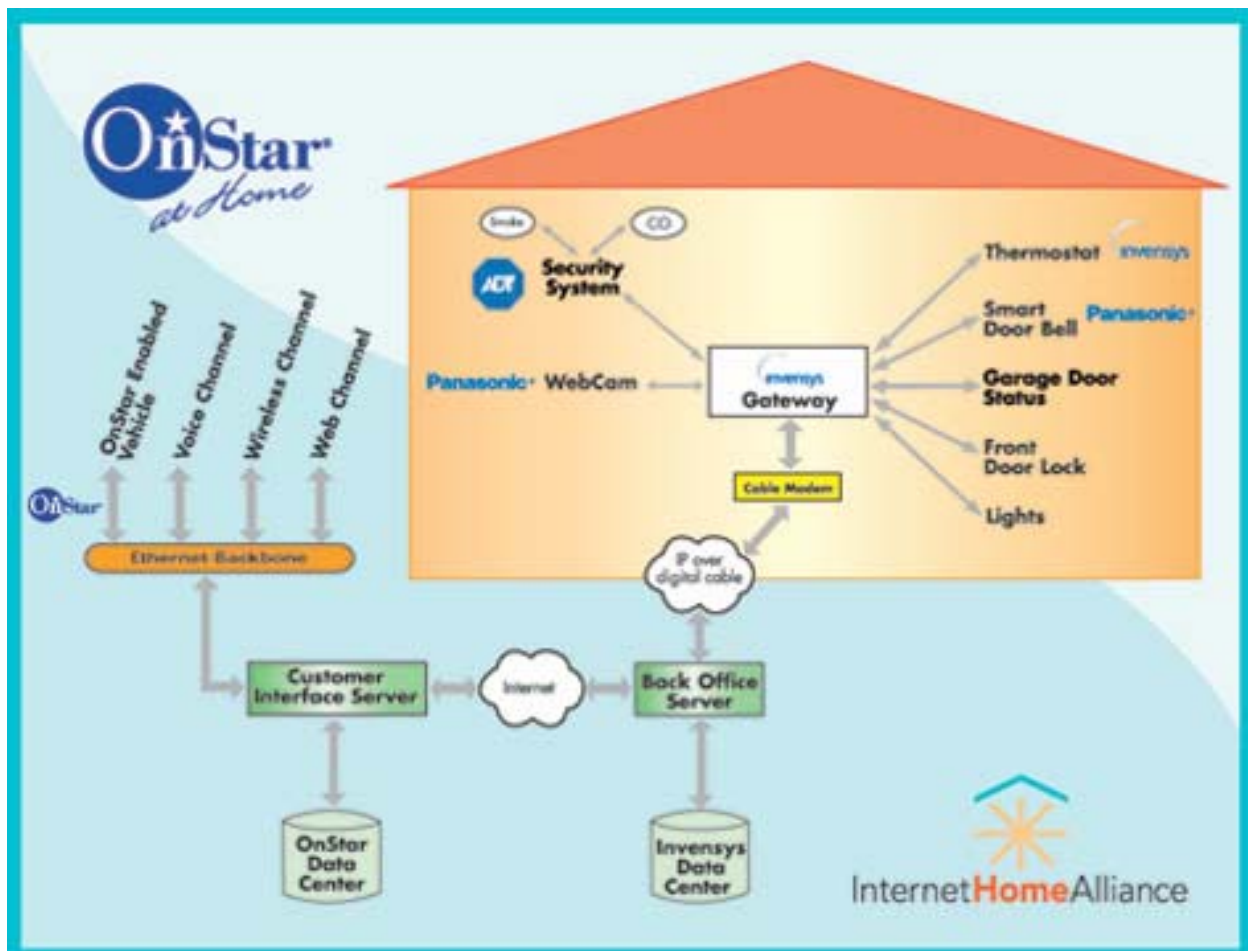
### Overview

The OnStar at Home pilot is a unique cross-industry collaboration to develop and test a fully-integrated home control and security system. The pilot provides about 100 households with an easy-to-use, consistent interface to home lighting, temperature and home security systems.

Consumers access and control those systems remotely from vehicles using OnStar's Personal Calling Service and from any PC, telephone, WAP phone or wireless PDA. For example, householders can use the remote access features of the pilot to lock doors, disarm the household security system, adjust thermostats and lights, and view the home's interior through a webcam.

The Alliance Pilot Program is designed to accelerate the nascent market for home technologies with broadband or persistent connections to the Internet. Members combine knowledge, skills and resources to deliver a pilot, then share in the results and learnings. OnStar, a wholly-owned subsidiary of General Motors, Invensys, Panasonic, Hewlett-Packard Company and ADT Security Services, Inc. are working together to incorporate their technologies into the OnStar at Home pilot.

### OnStar at Home Architecture



## OnStar at Home Research

To be selected for participation in the pilot, households must be located in southeast Michigan and meet several criteria: a home computer with cable broadband Internet access; a home security system; and the willingness to use the system actively and provide feedback. Participants will use the system for approximately four months.

As part of the pilot, participants are surveyed about their use of the OnStar at Home system.

- Prior to installation: Surveys to capture consumer expectations.
- After two months: Participants evaluate the OnStar at Home concept and give initial feedback about each of the features. Participants have the opportunity to suggest feature changes and share their thoughts about the installation and training process.
- Upon completion: At the conclusion of the pilot, survey questions focus on the user interface, ease of use, and likely retail potential of the solution.

Pilot research is being conducted by an independent research-based consulting firm associated with Internet Home Alliance. Pilot research results are provided to members of the Internet Home Alliance. A report on the findings will be made available to the public, and selected results will be posted on the Alliance web site.

## Home Control Systems in the Pilot

All Alliance pilots provide an end-to-end solution integrated from existing products and technologies. OnStar at Home includes the following:

**OnStar** allows participants to control home systems from different devices and locations.

- OnStar's in-vehicle Personal Calling Service using voice recognition technology provides for safe use while driving.
- Cell phones and standard phones – OnStar's voice recognition technology also enables access to home systems from cell phones and standard phones.
- WAP phones and wireless PDAs – Programming using wireless markup language (XML), allows for quick navigation through the home systems using cutting-edge devices.
- Web site – OnStar provides a private, secure Web site that the householder can access from any standard Web browser.

A user's command, regardless of the device where it originated, is sent to the OnStar Server, which forwards commands understandable to the Invensys Back End Server.

**Invensys** provides the in-home communication infrastructure for the pilot.

Outside the home, the Invensys Back End Server:

- Receives commands from the householder via any OnStar channels.
- Routes commands to the proper home and gateway in a language that can be understood by the devices in the home.

Inside the home, the Invensys Home Control Gateway:

- Connects the home to the Internet over any broadband connection.
- Enables communications between household systems, such as security, HVAC and lighting, all while communicating with the Back End Server outside of the home.
- Communicates with the Invensys Digital Slimline thermostat, allowing the householder remote control of functions normally performed at the thermostat display.

**Panasonic** provides the advanced telephone system and network-attached camera, or webcam, used in the pilot.

- When someone rings the “smart doorbell,” the telephone system automatically initiates a call to the householder. It will call three different phone numbers in an attempt to reach the householder.
- Family members can use an intercom to speak to visitors without opening the door.
- The householder can view up-to-the-minute still photos of the home’s interior on the Web site.
- For added security webcam images are stored on a server outside of the home.

**Hewlett Packard Consulting** developed the application interfaces, including the web site for the pilot.

- These interfaces allow householders to control their home systems from a variety of devices and remote locations.
- Applications for the OnStar at Home pilot run on the HP Application Server 8.0, providing a flexible, consistent, reliable and easy-to-install server framework for the project.

**ADT Security Services’** new Safewatch iCenter is the cornerstone of the pilot program’s security system. ADT also provides installation services for the pilot. The Safewatch iCenter combines monitored security with the simplicity of a graphical touch screen.

- One-touch access to security functions from one centralized location.
- Direct and rapid notification of potentially life-threatening critical conditions such as break-ins, smoke detection, and carbon monoxide.

**Timetable**

First quarter 2003	Research results available to the industry.
April 2002	Systems test and integration underway; selection of pilot households underway
January 2002	Launch of pilot, including sponsorship, applications overview, and research program in place.
May 2001	Pilot concept approved for action and preliminary research.

**About Internet Home Alliance [www.internethomealliance.com](http://www.internethomealliance.com).**

Internet Home Alliance is a cross-industry network of leading companies advancing the home technology market. A non-profit organization, the Alliance provides companies with the collaboration, research and real-world testing opportunities they need to launch their home technology products more quickly, successfully and cost-effectively. Members of the Alliance, which was founded in October 2000, come from a variety of industries and include such leading companies as Best Buy Co. Inc, Cisco Systems, Inc., General Motors, Hewlett-Packard Company, Invensys, Panasonic (Matsushita Electric Corporation of America), Sears, Roebuck and Co., Sun Microsystems and Whirlpool Corporation. For more information, visit [www.internethomealliance.com](http://www.internethomealliance.com).

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**About eTango ([www.etango.com](http://www.etango.com))**

eTango was founded in 1997 by two former managers at Procter & Gamble. eTango is a leading provider of Web service applications for the connected home market. The company's @ttract solution includes home productivity applications like calendaring, file sharing and photo albums, along with control for devices, appliances and services. With @ttract, consumers can access various applications and services from a TV, home PC, PDA or Web tablet--anywhere an Internet connection is available.

**About Gatespace ([www.gatespace.com](http://www.gatespace.com))**

Gatespace is a leading supplier of future-proof, managed-services solutions for connecting applications and services running on enterprise systems to servers and gateways, running on the edge of the Internet. With our Enterprise-to-Edge solutions, our customers extend their business offerings by provisioning, configuring, and operating applications and services within the broadband and telematics markets.

Gatespace is privately funded by Ericsson, Morgan Stanley Dean Witter, Fuqua Venture Partners, Bure Equity, CR&T, European Equity Partners, Pythagoras Participation, and T-bolaget. The company is based in Göteborg, Sweden, with its US headquarters in Palo Alto, California.

**About Icebox, LLC ([www.iceboxllc.com](http://www.iceboxllc.com))**

A wholly-owned subsidiary of Salton, Inc., Icebox, LLC designs and develops next generation kitchen products and e-commerce solutions. Their first product, the iCEBOX™, is a web-enabled kitchen entertainment center delivering information, communication and entertainment to the center of the home -- the kitchen.

Salton, Inc. is a leading domestic designer, marketer and distributor of a broad range of branded, high quality small appliances under famous brand names. Salton was recently named to Fortune Magazine's 100 Fastest Growing Companies list. Salton also designs and markets tabletop products, time products, lighting products and personal care and wellness products under a variety of branded names. To learn more about Salton products, visit [www.salton-maxim.com](http://www.salton-maxim.com).

**About Internet Home Alliance ([www.internethomealliance.com](http://www.internethomealliance.com))**

Internet Home Alliance is an open, non-profit association of leading companies working together to advance the home technology industry. In innovative pilot programs, Alliance members create and test new home technologies with broadband or persistent connections to the Internet. Currently, 32 companies participate in the Alliance. Principal members include Best Buy Co. Inc., Cisco Systems, Inc., General Motors, Hewlett-Packard Company, Invensys, The NewPower Company, Panasonic (Matsushita Electric Corporation of America), Sears, Roebuck and Co., and Sun Microsystems.

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