

project descriptions

# CONNECTING THE HOME CALL FOR COLLABORATION

CONNECTED HOMES PROGRAMME



project title  
**HomeGenesis**

### Description of Proposed Project

The HomeGenesis project involves the provision of a wide range of premium services to the home, with an emphasis on applications that make a tangible difference to the day-to-day life of the community.

The services that will be delivered to trial participants include broadband access, wireless networking and device connectivity, home security and surveillance, home control, energy control and utility monitoring.

These services are combined with a range of Beyond Online's flagship broadband entertainment products: RedKarpet.tv; an arts, culture and entertainment channel, TheCrunch.tv; a sports, leisure and travel channel, and Endeavor.tv; a science, technology and wildlife channel. In addition, an integrated community portal provides facility booking services, notification of local and community-related events, classifieds and notices.

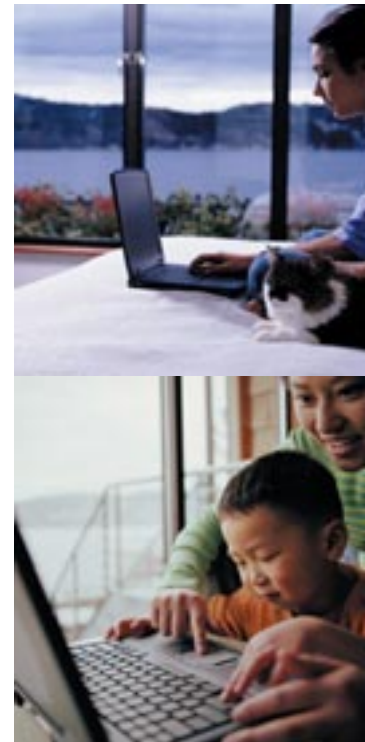
The HomeGenesis system can be controlled either locally or remotely through a sophisticated web-based interface. An advanced services gateway installed in each premise incorporates a web server that allows secure web-based control of the home. Remote access to view or control the home is possible through login via the HomeGenesis web site. Mobile access and notification of security alerts are provided through AirGateway's mobile messaging technologies.

In order to support these applications, a complete end-to-end solution for the deployment, management and delivery of electronic services is being implemented. As part of the HomeGenesis solution, Portus is providing its gateway operations centre in addition to systems installed in each home. The function of the gateway operations centre is to provide a secure and managed interface between third-party service providers and the service delivery platform in each home, as well as implementing the remote access infrastructure.

All services are delivered through the Portus DIAS, an open platform that is installed in each premise. This highly-integrated device provides total home connectivity and a platform for the delivery of multiple services, without the need for separate systems. Integrating an Asymmetrical Digital Subscriber Line (ADSL) broadband interface, the DIAS also provides three essential networks for the modern home and/or home office: 802.11b wireless LAN, Bluetooth (Class 1) and powerline communication. It also acts as the security and surveillance system, the home control and automation system, and the utility monitoring gateway.

The complete connected home configuration consists of the DIAS advanced services gateway, a wireless web pad, web cameras, powerline communication technology, lighting and appliance control modules, Bluetooth utility metering modules and standard security and safety sensors.

Any information appliance, from wireless web pad to PC to Personal Digital Assistant (PDA) may be used to surf the web or control the HomeGenesis system.



### Unique benefits of Proposed Project

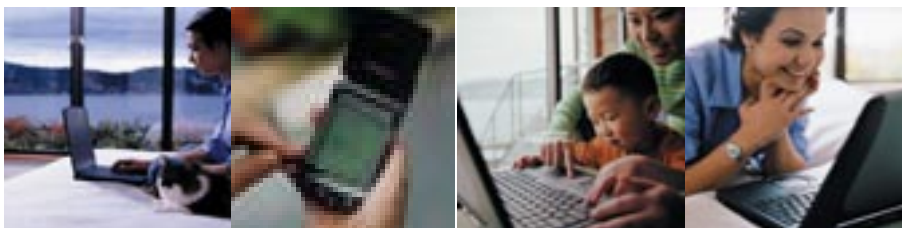
The HomeGenesis solution improves the quality of life by delivering security, convenience and peace of mind and enabling services that until now most of us could only dream of.

Some of these unique benefits include:

- Real-time graphical feedback on current and past electricity consumption which can be monitored through the utility monitoring gateway. The solution also controls energy usage in the home and delivers significant reductions in electricity bills. By the same token, it also reduces data collection costs for utilities, thereby generating benefits for customers and service providers alike.
- Broadband entertainment channels, wireless networking, video surveillance and advanced home control - these are but a few of the premium services provided to further enhance users' experience.
- Utilizing powerline communication and Bluetooth wireless networking to connect a variety of devices in the home, the solution delivers tangible benefits in a system that is accessible, affordable and easy to install in both existing and new residences. The important thing is, no new wiring is required.
- Featuring an advanced services gateway at its core, the solution removes the need for separate systems for security, automation and broadband connectivity by delivering all these functions in a single highly integrated unit.
- The solution delivers the ultimate in convenience, providing remote access and control of the home via the Internet or mobile phone. When away from the home, customers can respond to security alerts, view real-time surveillance of their home, control appliances and automate operation.
- Within the home, customers also enjoy the benefits of broadband and wireless LAN connectivity, multiple interactive entertainment channels and a community portal that allows them to interact with the communities.

### Companies/Partners in Consortium

1. Airgateway Pte Ltd
2. Portus Singapore Pte Ltd
3. Beyond Online Ltd
4. CapitalLand Residential Ltd



### Profile of Consortium

HomeGenesis comprises AirGateway Pte Ltd, Portus Singapore Pte Ltd, Beyond Online Limited and CapitaLand Residential Limited.

#### **AirGateway Pte Ltd**

AirGateway is a leading Singapore-based enterprise solution and mobile products and solutions company and telcos' preferred value-added service (VAS) partner. It leads the consortium, assuming overall project management responsibility and providing specific wireless technologies and services for the trial.

#### **Portus Singapore Pte Ltd**

Portus is a leading provider of end-to-end solutions for the creation, deployment and delivery of managed electronic services. It offers a complete delivery platform, operational infrastructure and enablement resources required to make electronic services a reality. Portus will supply its system for the connected home and provide gateway operations facilities.

#### **Beyond Online Ltd**

Beyond Online is a convergence media and entertainment company specialising in cross media production for the television, broadband and interactive markets. It works collaboratively with Beyond International and Brainwave Interactive to create award-winning digital content. Beyond Online is providing 3 premium content channels as part of the HomeGenesis solution.

#### **CapitaLand Residential Ltd**

CapitaLand Residential builds and delivers homes that offer lasting value. Tapping on the knowledge and expertise of its international operations, its homes cater to various lifestyles in key cities in Singapore, China, Australia and Malaysia. CapitaLand Residential is a member of the CapitaLand Group, which has property, hospitality and property-related products and services spanning more than 50 cities around the world. CapitaLand Residential is assuming the user role in the consortium where trial homes will be provided by CapitaLand for the piloting of connected home solutions and services.

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