MiLife™ Developers Program



The MiLife™ Developers Program allows mobile operators and application developers to access tools that will fast track the development of new services that integrate with the MiLife™ family of solutions.

Benefits

- Access the knowledge base of applications developers world-wide
- Leading edge software developer toolkits to reduce application developer costs
- Certification of key end user services that are ready to work with MiLife™ solutions
- Promotion of new end user services to mobile operators around the world

Lucent Technologies
Bell Labs Innovations

MiLife™ Developers Program

As mobile user expectations increase and technology evolves to support both voice and data services, mobile operators are exploring all possibilities to expand their service portfolio in the most effective and timely manner. Mobile operators and content providers are looking to link the value of the Internet to the large community of mobile users. By embracing the emerging business models, mobile operators are opening up their networks to third party access and are partnering with application developers and application service providers to build a broad portfolio of compelling services.

The MiLife™ Developers Program is applicable to organizations such as ISVs, ASPs, Systems Intergrators and Service Providers, including Mobile Network Operators. By leveraging these communities, mobile operators can deliver a large range of services that are customized to specific customer segments. However, in order to achieve this, mobile operators need to present simplified Application Programming Interfaces (APIs) rather than complex telecom protocols, whilst protecting security and integrity of the mobile network.

By understanding the needs of the mobile operator and application developer communities, Lucent's MiLife™ Developers Program has been designed to exploit these opportunities.

Simplifying Service Application Development

OSA (Open Services Access) and Parlay mediation standards allow operators to open their networks to third parties in a secure and uniform fashion. OSA/Parlay allow network capabilities to be accessed by service applications, in order to enhance the end user experience in a simple and abstracted manner, and without the need for a deep understanding of the underlying network and protocol complexity. These mediation standards allow services to span multiple network types, such as data, voice, wireline, and wireless, taking advantage of the unique capabilities within these networks.

The OSA/Parlay open mediation capabilities allow mobile operators to move from vertical or point solutions to a horizontal or mediated solution, saving development costs and improving the time to market for new service introduction. In order to assist mobile operators to capitalize on these benefits, Lucent has developed an OSA/Parlay gateway called the **MiLife™ Intelligent Services Gateway (ISG).**

The MiLife™ ISG enables application developers to access mobile operators network resources via open, standardized and easy-to-use Application Programming Interfaces (APIs), enhancing the application with dynamic information about the user; for example presence, location and user preferences.

- The MiLife™ ISG enables mobile network operators to introduce a uniform service middleware layer to support next generation services and third party access.
- The MiLife ISG allows mobile operators to accommodate emerging business models and to play a more active role in the value chain, drawing additional value from their existing network.
- For application developers the MiLife ISG opens new opportunities to deploy their services and expand their businesses to the large mobile customer community, as well as benefiting from a new development process that will speed up service creation and reduce development costs.
- The MiLife Developers Program is today focused on the MiLife ISG and OSA/Parlay.

The aims of the program

- To generate awareness and educate developers to the benefits of the OSA/Parlay approach.
- To provide developers with the knowledge and toolkits to build, integrate and test new service applications.
- To encourage the migration of the developer's existing service applications to leverage mobile network capabilities.
- To encourage developers to deploy brand new services using the OSA/Parlay concept, delivering value to the end user and increasing profitable revenue generation opportunities.
- To provide a broad suite of commercially ready service applications that are certified to work with the MiLife family of solutions.

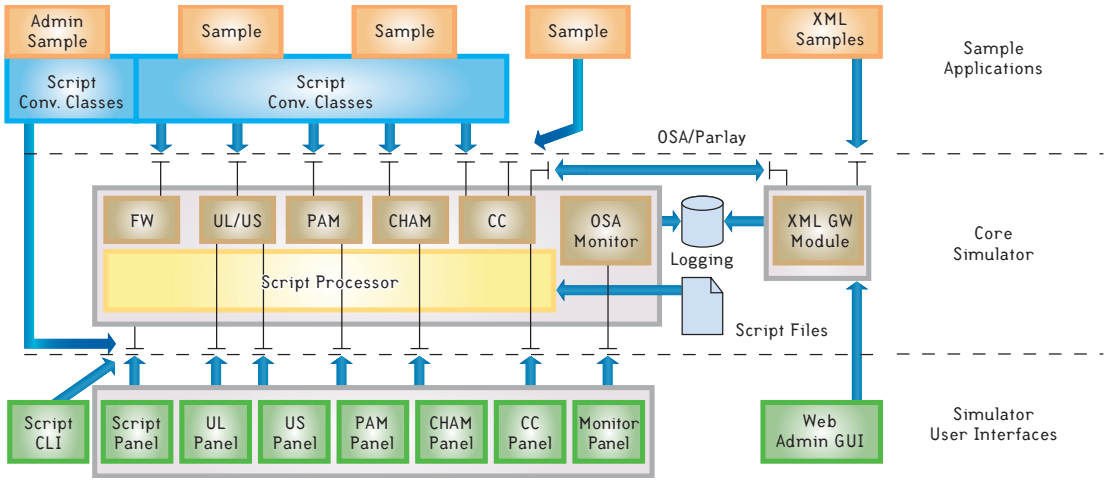
Software Developers Kit

The MiLife Developers Program provides enrolled parties with a Software Developers Kit (SDK). This contains tools, including a MiLife ISG simulator, sample applications and access to support, in order to develop mobile service applications that leverage network capabilities via Lucent's MiLife ISG.

The SDK provides a safe service creation environment for application developers to evaluate, explore, prototype, develop and test service applications. This software-based solution allows the prototyping and testing of services by simulating key network capabilities and components of the actual MiLife ISG, without the need to invest in wireless network elements or the MiLife ISG itself.

Once signed up to the MiLife Developers Program, developers are able to explore the functionality of upcoming releases of the MiLife ISG. This will allow them to stay a step ahead, developing and testing new capabilities before the same functionality is available in the live network, accelerating the introduction of service updates and enhancements.

Below is an example of the MiLife ISG SDK architecture.



The three elements of the SDK

- **Sample applications:** As a MiLife™ ISG SDK user, developers will create their own client applications. The SDK comes bundled with a number of sample Java client applications that developers can study, modify and run to accelerate their learning curve. The samples demonstrate the use of the OSA/Parlay convenience classes, simplifying access by hiding CORBA (Common Object Request Broker Architecture) connectivity code, authentication and access code. This allows developers to concentrate on the client application functionality. The SDK also contains samples and IDL (Interface Definition Languages) for direct CORBA access to OSA/Parlay.

- **Core Simulator:** The SDK simulator assists developers with the creation and testing of applications for the MiLife ISG. It is in fact a collection of simulators, one for each of the Service Capability Servers (SCSs).
  - Framework (FW)
  - User Location (UL)
  - User Status (US)
  - Presence and Availability Management (PAM)
  - Charging and Accounting Management (CHAM)
  - Call Control (CC).

  The simulator includes a monitor for OSA/Parlay messages between the user's application and the simulator. In addition, important events in the simulator are logged to a file. The Script Processor is used to execute scripts to provision the simulator and define its dynamic behavior.

- **Simulator User Interfaces:** The simulator can be started from within the graphical tool. The graphical tool provides a way to view and control the scripts, SCSs and monitored OSA/Parlay CORBA messages. The graphical tool will be a developer's first point of contact with the MiLife ISG SDK. In addition, the simulator can be controlled with a command line tool to support test scenarios.

MiLife Developers Program Member Benefits

- Allows a member to learn, explore, and exploit the possibilities of extending their existing service applications to mobility markets, as well as using new Parlay/OSA mediation technology – accessing new profitable revenues.

- Users of the SDK can utilize familiar programming languages and toolsets independent of the actual MiLife™ ISG product, allowing them to develop applications for the mobile market at Internet development speeds – accelerating time to revenue

- The SDK provides members with a comprehensive set of tools to simplify applications development for the mobile environment – lowering service application development costs

- Service applications developed using the SDK are enriched through access to dynamic network-based information, including user presence, preferences, location and account balance. This will create a better end user experience and make service more 'sticky' for mobile network operators.

- The SDKs will enable sales and marketing personnel to demonstrate their services without the need to access actual mobile networks. For example, a third party application provider may wish to demonstrate their location-based service at a trade show and simulate the intelligent and dynamic aspects of the network.

- Leading applications may be certified for inclusion in Lucent's own promotions to mobile network operators.

How to join the MiLife Developers Program

To access the MiLife Developers Program visit www.lucent.com/developer/milife. It is easy to navigate and open to all developers. For access to the downloadable SDK registration is necessary.

Once registered, members will be provided with a user name and a password for future visits to the site. Members are then free to download the toolkits and start developing.

Using the registration information, Lucent has a direct and open communication tool to monitor how the member's development work is progressing, and what types of services are being created using the SDK. This information will also be used to explore any opportunities where Lucent can position members' services to mobile operator customers.

If both parties wish to pursue these opportunities, or if the service is particularly innovative, Lucent will look to form a partnership with the program member. As an official partner members can rely on Lucent's marketing support and relationships with the biggest mobile operator families around the world.

Lucent Technologies
Global Mobility Marketing
Lucent Technologies NS UK Ltd
The Quadrant
Stonehill Green
Westlea
Swindon
Wiltshire SN5 7DJ
UK

Response Centres:

EMEA	Tel:	+44 (0) 7000 582 368
	Fax:	+44 (0) 1344 488 045
	Email:	mobility@lucent.com
Asia Pacific	Email:	wirelessap@lucent.com
NAR/CALA	Tel:	+1 888 426 2252
	Fax:	+1 314 317 6480

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