



myMONSTER TCS

One Communications Framework for Many Platforms

At a Glance

The myMONSTER Telco Communicator Suite (TCS) enables software developers to create feature-rich client communications applications for Next Generation Networks and future mobile networks. The myMONSTER TCS kit supports 3GPP IMS, GSM-RCS and Open Mobile Alliance (OMA) service enabler access as Presence, XML Documenta Management (XDM), SIMPLE IM-based instant messaging, and many other functions.

About myMONSTER TCS

The proliferation of mobile and fixed platforms, together with an increasing number of services to be accessed via different platforms means that an application written for one platform must be rewritten repeatedly for other platforms. This is an issue that increases time to market, reduces market size and hinders the uptake of services. To address this issue, Fraunhofer FOKUS has implemented an extensible plug-and-play framework – the Multimedia Open InterNet Services and Telecommunication EnviRonment (myMONSTER) that provides to developers a unified communication interface to bring together a suite of integrated applications from the Telecommunications, Web, and IPTV sectors on different target platforms.



myMONSTER TCS on Android

myMONSTER TCS on PC

Key Benefits and Advantages:

- Shortens development time
- IMS stack builds on open standards from 3GPP (TS 24.229) and JSR 281 specifications
- Multiple target platforms (Linux, Windows Vista/XP/7, Mac, Windows Mobile, and Google Android)
- Decoupling of service logic from the presentation layer enables multiple presentation layers (Swing, SWT, Widgets, JavaFX) and facilitates branding
- Web Services and JSON APIs enable integration of Internet application services

Key Features include:

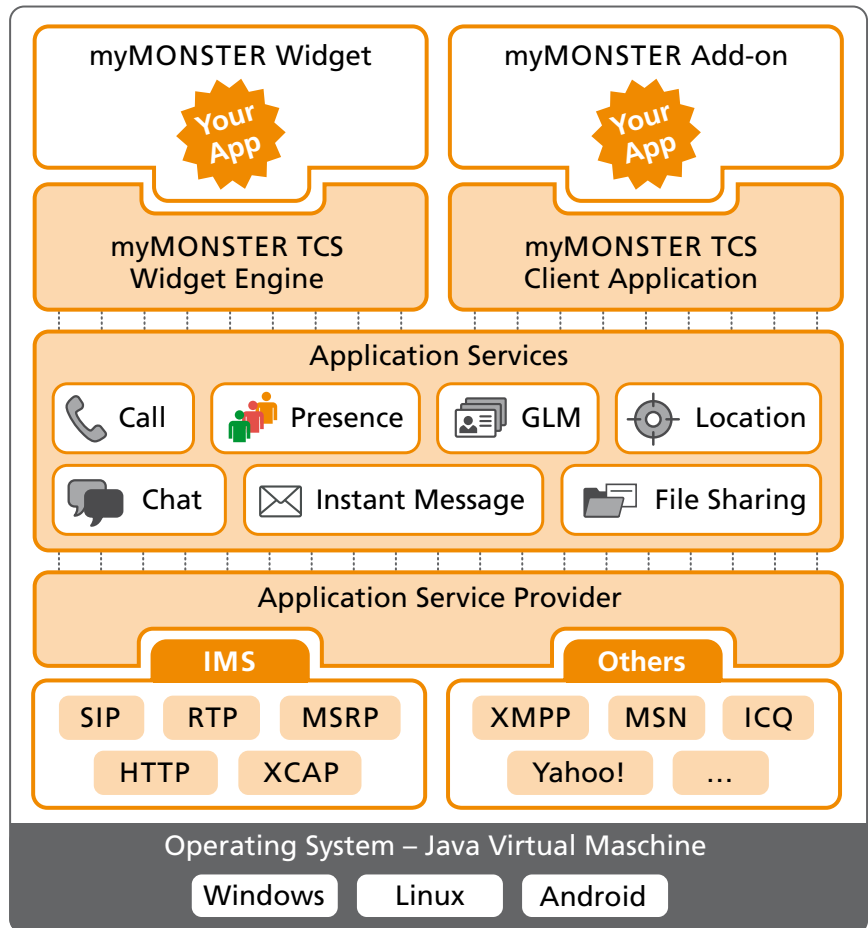
- Group List Management stored locally and on a centralized XDM server
- Event Notification Framework for Presence and Location Information Publication, Subscription and Notification
- OMA Instant Messaging and Conferencing Multimedia Telephony with Audio and Video
- Chat with MSRP (Message Session Relay Protocol)
- Multimedia Telephony (3GPP MMTel)

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API	Description
Call	Creating audio and video calls including call control functions like hold, resume and call transfer
Instant Message/Chat	Sending instant messages in page mode using SIP and session mode messaging using MSRP (Message Session Relay Protocol)
Presence	Publication of the presence state and getting notification of user presence supporting PIDF (Presence Information Data Format), RPIDF and OMA presence
Location	Access to different device location sources like GPS, Cell Id and static locations enables location based services
Group List Management	Managing groups for contacts and contact data with support for local file system and XDMS (Xml Document Management Server)
Filesharing	Creating file transfer sessions for sending and receiving files over MSRP

myMONSTER Framework

The Telco Communicator Suite is a Java-based framework that delivers a unified communication experience for all forms of IP-based telecommunication – from Multimedia Telephony to rich Presence, Group List Management, and push to share right up to media casting content. It is extremely powerful, yet lightweight enough to run on both fixed and mobile devices. This suite provides developers with high level APIs for easy integration into their applications in order to enrich them with telco aware services. The services on the TCS framework are modularized and decoupled, giving developers the flexibility and options to extend the framework with their own components.



Contact

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Add-on modules – EPC, RCS, Emergency Services

EPC – A special myMONSTER TCS module for the OpenEPC core provides the S14 Protocol implementation to communicate with the ANDSF (Access Network Discovery and Selection Function) and will control the network interfaces according to the network policies. This enables seamless handovers between packet-based networks.

RCS – A RCS compliant add-on enriches myMONSTER with services based around Mobile Subscriber ISDN Number (MSISDN) and operator networks. The traditional circuit-switched call is enriched with live video and image sharing functionalities. The native phone book is enhanced with social presence and service capability discovery. SMS services are enhanced with multimedia chat and file transfer.

Emergency – The myMONSTER emergency services add-on has been developed within the European PEACE Project to overcome the problem within all-IP networks of mapping the location of a caller who has made a service request to the nearest Public Safety Answering Point (PSAP). It is geared towards operators and safety organizations regarding the migration of their current emergency system to Next Generation Networks.