

## GLOBALTEL SATELLITE COMMUNICATION SERVICES

Service Name	Short description
Mobile Voice communication	Transmit and receive voice calls by means of two-mode (Globalstar/GSM) handheld user terminals (UT) produced by Telit and Ericsson, handheld UT (GSP1600, Globalstar/AMPS modes) produced by Qualcomm, and also fixed UT's of Qualcomm и Ericsson.  Service offered after UT authorization and is included in "Basic Service Pack".
Fixed voice communication	
Asynchronous Data Transfer - incoming, when the 2-nd phone number is obtained from Customer Center - outgoing	The following asynchronous data transfer services are offered with the 9.6 Kbit/sec rate: <ul style="list-style-type: none"> <li>• Internet access. Service included in "Basic Service Pack".</li> <li>• E-mail access, upon customer request</li> <li>• FTP (file transfer), upon customer request</li> <li>• Point-to-Point exchange, included in "Basic Service Pack"</li> </ul>
Mobile Internet (dial 123)  When Roaming outside GlobalTel Service Area (dial 7-954-229-9999)	This service offers free and high quality Internet access through the high speed channel to the Rostelecom national backbone fiber optical Internet network.  Service is included in "Basic Service Pack".
Constraints on the communication type: <ul style="list-style-type: none"> <li>- to offer only voice service (outgoing, incoming)</li> <li>- to offer only asynchronous data transfer (outgoing 9.6 Kbit/sec); incoming when the 2-nd phone number is obtained from Customer Care Center</li> </ul>	Note: In case when only asynchronous data transfer has been allowed still making a call to Service Center is allowed too. Service can be activated by Customer Care Center upon written subscriber request.
International roaming	International roaming gives an opportunity to use mobile satellite communications in the different world territories (countries) as well as cellular networks (GSM standard) outside GlobalTel service area.
Calling line incoming number identity presentation (CLIP)	Subscriber number identification subject to "number identification restriction" option does not activated on the calling part. CLIP is guaranteed inside GlobalTel network for all UT-to-UT calls.. Service activated by Customer Care Center upon written subscriber request.
Calling line identity restriction (CLIR)	Service allows GlobalTel subscriber to prohibit determination of his own phone number by called party. Service activated by Customer Care Center upon written subscriber request.
Call divert	This network service enables to divert incoming calls to any specified phone number subject to the divert

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<ul style="list-style-type: none"> <li>- unconditional</li> <li>- divert on "busy"</li> <li>- divert on "no answer:"</li> <li>- divert on "outside of service area" state</li> </ul>	<p>condition and UT state.</p> <p>Note: automatically blocked in case of subscriber or operator (GlobalTel) blockage.</p> <p>Included in "Basic Service Pack".</p>
<p>All calls reject (subscriber voluntary)</p>	<p>This network service enables to reject all incoming and outgoing calls.</p> <p>Note: it's still possible to make a call to the Service center number 611.</p> <p>Service activated by Service Care Center upon written subscriber request.</p>
<p>Satellite mail</p>	<p>This network service enables to the subscribers an opportunity to receive, examine and send from Globalstar user terminal e-mail through the standard mail applications (Microsoft Outlook, The Bat, Outlook Express) with mail box in gtel.ru domain and make also an Internet connection through the GlobalTel access server (dial-up "123"). The incoming mail can be reviewed also when accessed to the Internet through any other Internet provider. The detailed instructions on mail applications settings see in the corresponding documents. Mail box standard size is 2 Mb.</p> <p>Service activated by Customer Care Center upon written subscriber request.</p> <p>This service offered even the subscriber equipment is in blocking (suspension) state. In this case the possibility will be preserved for the subscriber to use his mail box with "123" through other Globalstar terminal or to review his mail box by means of different terminal equipment (e.g. PC modem), when dialed to the exterior Internet provider. Subscriber monthly payment does not depend of whether Globalstar subscriber equipment is blocked or not.</p> <p>When the subscriber stays longer than 90 days in blocking state his mail box in gtel.ru domain will be discarded.</p>
<p>FTP service</p>	<p>This network service enables subscribers to reserve a folder (ftp directory) on the GlobalTel corporate server (information file storage). User data protection is performed by means of personal login name and password. The last one can be used also by a group of multiple subscribers. The ftp folder access for information exchange is accomplished through the Internet to the address <a href="ftp://ftp.gtel.ru">ftp://ftp.gtel.ru</a> by means of FTP client, in example CuteFTP. This client allows to download files, even when communication session has dropped. Standard FTP folder size is 10 Mb.</p> <p>Service activated by Customer Care Center upon written subscriber request.</p> <p>This service offered even the subscriber equipment is in blocking (suspension) state. In this case the possibility will be preserved for the subscriber to work with his FTP folder through "123" with other Globalstar terminal or through the different terminal equipment (e.g. PC modem), when dialed to the exterior Internet provider. Subscriber monthly payment does not depend of whether Globalstar subscriber equipment is blocked or not.</p> <p>When the subscriber stays longer than 90 days in blocking state his FTP folder in gtel.ru domain will be discarded.</p>
<p>FAX - mail (incoming)</p>	<p>This network <i>store &amp; forward service</i> enables to the GlobalTel subscribers to receive documents, sent by any facsimile machine, as an e-mail attachment in TIFF format. Accordingly the separate 3-rd phone number is assigned to the subscriber. Fax message sent to this number will be stored in an e-mail box until next download.</p>

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	<p>To receive fax is necessary to use Outlook, The Bat, Outlook Express mail applications. The advantage of this service is the guaranteed delivery of fax to the addressee. In case of session break during e-mail transfer the message will not be lost and can be received after reconnection.</p> <p>Service activated by Customer Care Center upon written subscriber request.</p>
<p>FAX – mail (outgoing)</p>	<p>This type of service enables to the GlobalTel subscribers of “Satellite mail” service to send documents from Qualcomm or Telit user terminals to the standard fax-machines connected to PSTN. The corresponding documents are presented as e-mail enclosures of .DOC, .PDF, .TIFF, .JPG, .XLS and .TXT formats. For this purpose it’s necessary to create an e-mail message with the user mail application (e.g. The Bat, Microsoft Outlook or Outlook Express) and attach document file to be transferred to the fax-machine of addressee. In the address field of the message the following string should appear:</p> <p><u>fax=8[city code][phone number]@fax.gtcl.ru</u>  or  fax=7[city code][phone number]@fax.gtcl.ru - for fax in Russia</p> <p>fax=810[country code][city code][phone number]@fax.gtcl.ru  or  fax=+[country code][city code][phone number]@fax.gtcl.ru  or  fax=00 fax=810[country code][city code][phone number]@fax.gtcl.ru – for international fax.</p> <p>Then user makes an Internet connection through GlobalTel access server (dial «123» to mobile Internet) and sends prepared message.</p> <p>If user does not plan to continue Internet session the existing connection should be broken off.</p> <p><i>The message received by GlobalTel mail server is filtered, converted into TIF image file and transmitted to the GlobalTel fax-gateway. Here the message is translated to electrical signal and finally transmitted by fax protocol through PSTN to addressee fax-machine.</i></p> <p><i>The sending server is waiting the acknowledgement of the successful fax delivery through PSTN.</i></p> <p><i>In case the recipient phone number is busy or the fax message by any reason can't be delivered the sending server shall initiate sequential fax delivery attempts through PSTN network. The number of such attempts is determined by the reasons of delivery refusals.</i></p> <p>The send fax title page will contain standard sender information and total number of pages.</p> <p>The calling party will receive an e-mail notice with the detailed list of successful and failed attempts. To read this notice the user should download it by means of “Satellite mail” service option.</p> <p>As a result the fax delivery sequence is breaking up in two stages. On the first stage the electronic message with enclosed files is carried out through Globalstar satellite channels (“Satellite mail” service option) to GlobalTel mail server. On the second stage converted document is delivered through PSTN from GlobalTel</p>

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	<p>fax server to addressee fax-machine.</p> <p><i>Tariffication of satellite and ground based (PSTN) channels is accomplished separately according to usage time and established tariffs. Thus subscriber pays both failed and successful attempts as in case of sending of usual fax.</i></p> <p><i>Sometimes the crossing of satellite channel (“Mobile Internet” service option) tariffication and PSTN channel tariffication (“Outgoing fax” service option) can occur in billed accounts. Such Situation arise as a consequence of rounding ff the minute rate tariffication as well as subscriber Internet activity after send fax session.</i></p> <p><b>The “Outgoing fax” service option is automatically activated upon activation of “Satellite mail”.</b></p>
GlobalTel Web-interface	<p>GlobalTel Web-interface allows the subscribers of the company to use electronic mail service from any computer having an Internet connection and browser such as Microsoft Internet Explorer 4.0 and or Netscape Navigator 4.08 and higher.</p> <p>The Web-interface allows subscribers independently to make the following adjustments of own mail box:</p> <ul style="list-style-type: none"> <li>• send and receive e-mail by means of usual Web-browser ( MS Internet Explorer, Netscape Navigator, Opera);</li> <li>• create, rename end delete folders inside mail box, store received letters, draft messages and sent copies of letters;</li> <li>• choose a number of received messages for simultaneous output on the screen;</li> <li>• set sorting and filtering parameters (date, subject, sender etc..) of the incoming mail;</li> <li>• make adaptable adjustments of the “delete message” mode;</li> <li>• add or discard addressee in address book and use them when preparing new letter;</li> <li>• use call divert mode;</li> <li>• use auto answering mode by means of answering with predetermined templates to the particular addresses;</li> <li>• collect mail from different mail boxes with RPOP service</li> </ul> <p>To use GlobalTel Web-interface type <a href="http://gtel.ru:8100">http://gtel.ru:8100</a> in your Browser address line, then enter the user name (login) and PW.</p> <p><b>Some options can be locked by default. If you have any questions please call GlobalTel Customer Care Center.</b></p>
«Access delimiting to the Telematics services composition (TSC) for GlobalTel dial-up subscribers (“Mobile Internet 123” and “Mobile Internet 124” services)	<p>Access delimiting to the Telematics services allows to organize limitation of the user Internet access from Globalstar user terminals with “123” and “124” Mobile Internet services. This optional service is organized by means of Authorization, Autoitentication and Accounting GlobalTel server.</p> <ul style="list-style-type: none"> <li>• If the user does not subscribed to this service his access parameters to the telematic services shall not be changed.</li> </ul>

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	<ul style="list-style-type: none"> <li>• When he does:</li> </ul> <p>The connection sequence for Mobile Internet “123” or “124” will not be changed, but subscriber will work according to the restrictions, he requested in time of activation of this service.</p> <p>Some examples:</p> <ul style="list-style-type: none"> <li>- Only FTP service and e-mail are accessible. Internet access is locked;</li> <li>- Доступны ресурсы FTP сервиса и электронной почты комплекса телематических услуг, а также некоторые ресурсы из сети Интернет (ресурсы указываются абонентом), все остальные ресурсы из сети Интернет должны быть закрыты;</li> <li>- Доступны только некоторые ресурсы из сети Интернет (ресурсы указываются абонентом), все остальные ресурсы из комплекса КТУ и из сети Интернет должны быть закрыты;</li> </ul> <p>При попытке доступа на запрещенные ресурсы полный доступ ко всем ресурсам сети Интернет возможен после дополнительной аутентификации, то есть после ввода логина и пароля. В этом случае необходимо в заявке указать возможность полного доступа.</p> <p><i>Дополнительно – с помощью сервера аутентификации, реализована возможность выделения статических (неизменных от соединения к соединению) IP адресов для терминалов Глобалстар, при их работе с услугами “Мобильный Интернет 123” и “Мобильный Интернет 124”.</i></p>
Голосовая почта (VMS) ГлобалТел.	<p>Голосовая почта ГлобалТел предоставляет абоненту возможность получить все вызовы, даже если телефон выключен, занят или находится вне зоны обслуживания. Это удобное средство гибкого контроля своих разговоров по телефону Глобалстар. Воспользоваться данной услугой могут абоненты портативных телефонов Глобалстар производства Qualcomm, Telit, Ericsson, а также владельцы стационарных телефонов GSP2800.</p> <p>Голосовая почта в сети ГлобалТел выполняет функции автоответчика. Такой автоответчик будет включаться, если вы установили переадресацию на номер центра голосовой почты VMS ГлобалТел. Например, при включенной функции переадресации, если абонент не доступен, когда вы находитесь вне зоны обслуживания или выключили телефон, все звонки поступят в Почтовый ящик голосовой почты. В зависимости от параметров настройки вы получите уведомление звонком (оплачивается абонентом) или SMS (бесплатно) о поступлении в ваш почтовый ящик нового голосового сообщения.</p>
Сервис коротких сообщений (SMS)	<p>С помощью данной услуги абонент может получать и передавать короткие текстовые сообщения, не подключаясь к голосовому каналу или каналу данных. При пользовании SMS не устанавливается прямое соединение с другим телефонным номером - сообщения передаются в сервисный центр коротких сообщений (SMSC), который их принимает, хранит и доставляет адресату.</p> <ul style="list-style-type: none"> <li>• Владельцы абонентских терминалов стандарта GSM (Telit <a href="#">SAT550</a>, <a href="#">SAT600</a>, <a href="#">Ericsson R290</a>), зарегистрированных в сети ГлобалТел, могут отправлять и получать SMS размером до 160 символов, отправленные с мобильного телефона стандарта GSM сети ГлобалТел или другого сотового оператора, являющегося роуминговым партнером сети ГлобалТел, с e-mail или с <a href="#">сайта ГлобалТел</a>.</li> </ul>

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	<ul style="list-style-type: none"><li>• Владельцы терминалов стандарта IS41 (<u>Qualcomm GSP1600</u>), зарегистрированных в сети ГлобалТел, могут только получать сообщения длиной до 35 символов, отправленные с мобильного телефона стандарта GSM сети ГлобалТел, с e-mail или с <u>сайта ГлобалТел</u>.</li></ul>
Automatic Subscriber Service (ASS)	<p>This network service enables to the GlobalTel subscribers, themselves without service center operator support to receive the requested actual voice information from any phone. Among them there are statement of the account, various inquiries. The subscriber can also make changes of the access password and add or remove service options.</p> <p>The subscriber can solve on-the-fly with ASS system the current questions when operator unavailable in busy hours.</p>