

A CLASS ABOVE THE REST

LGfL exists to provide best value educational broadband services for schools of the highest quality; it has no mandate to offer schools cheap unsatisfactory solutions. Established over ten years ago as an education trust through a unique collaboration of all London LAs, LGfL exists solely

to serve schools and instead of taking profits, takes every opportunity to reduce the rates schools pay, irrespective of rates signed up to. Here are the **headlines** of what's **INCLUDED** with your LGfL connection and there's more detail on each feature in the Learn More section.

LONDON GRID FOR LEARNING

CONNECTIVITY

Your LGfL connection is a 'speed of light' fibre optic cable dedicated just to your school, which goes all the way from your school network to the nearest LGfL high capacity hub, and it's not 'contended' - it's not 'upto' - it's all there and it's all yours.

SECURITY AND SAFEGUARDING

■ Dedicated Firewall

Each connection comes with a high-quality secure and actively managed Cisco Firewall a top-flight sentry to guard your school and control the data ports you want open or locked shut.

■ Internet filtering

LGfL internet filtering is fast and flexible, and works continuously to prevent inappropriate content from appearing on screens in your school.

■ E-mail filtering

LGfL keeps email safe and secure. The industry-leading email filtering system, MailProtect, removes viruses and inappropriate content, and prevents spam email reaching your inbox.

■ Sophos Enterprise anti-virus protection

LGfL gives an unlimited licence to use Sophos Enterprise for all school computers, as well as all staff and pupil computers used at home! Sophos Enterprise is a high value industry-



strength product which allows automatic regular updates on all your computers, so you remain protected from even the latest outbreak.

■ Identity management – secure logins for all

Providing secure logins – usernames and passwords – so that teachers and pupils can access e-mail, online systems, learning resources, etc. can be an expensive business. With support from the DfE, LGfL was the first schools' service in the UK to offer 'Shibboleth-compliant' identity management.

■ Safeguarding advice and resources

From 'sexting' to violent video games, from cyber-bullying to virtual stalking, the dangers are manifold. Schools have a duty of care to safeguard pupils and LGfL is committed to fully supporting schools in this area.

■ Remote access – log in to your school network from home

Do you need to log in and use school-based IT systems at home? Cisco's RAV3 product is licenced by LGfL for your use as part of the service. Use the software client and your LGfL USO to log in as if you were at school.

CURRICULUM SUPPORT

One unique and indispensable aspect of the LGfL service is the huge array of teaching and learning resources included with your connection, all of which can also be used at home by staff and pupils using their LGfL login.

■ MyUSO

With so many resources available with your LGfL connection, you might welcome a convenient way to organise them for pupil access. MyUSO is the answer – a digital shopping basket you can hand to pupils with the content you

LEARN MORE ABOUT EACH SECTION! TURN OVER TO SEE ADDITIONAL INFORMATION

have chosen for them from the LGfL portfolio.

■ MyDrive

MyDrive, gives every LGfL school 500Gb of secure cloud storage which you can allocate to staff and pupils to save work and store files.

COMMUNICATION SERVICES

■ **StaffMail** can be quickly implemented for your entire team using source data from your MIS. This super reliable service uses the latest version of Microsoft Exchange, resiliently hosted at dual sites within the LGfL core network for full redundancy and backup.

■ LondonMail for pupils

Email for pupils is a business-as-usual included service from LGfL, which benefits from the same filtering which prevents undesirable mail arriving at inboxes.

■ Web hosting

LGfL schools have a secure web-

hosting platform for their websites and all embedded content. The hosting platform uses the same modern data centres used for all LGfL data, on resilient servers located behind multiple levels of security.

■ Microsoft Office 365

LGfL integrates Office 365, (including online versions of Outlook, Word, Excel, PowerPoint & OneNote) by providing access via LGfL USO login.

■ Secure document transfer

Transfer sensitive data securely between schools or to the LA using 'USO-FX2' now neatly integrated within MyUSO.

■ Video conferencing

Take advantage of the high-definition desktop conferencing tool Cisco Jabber.

■ VideoCentralHD

A safe alternative to YouTube designed for schools.

■ Service Desk

UK-based dedicated school Service Desk open 8am to 6pm and support cases can be raised online 24/7.

ADDITIONAL OPTIONAL SERVICES

■ Secure off-site file and data backup

This important service is an additional chargeable option since some schools wish to avail themselves of large backup capacity and are happy to pay for this as a complementary service. Visit www.gridstore.lgfl.net for more information.

■ IP telephony (voice over IP)

Many schools served by LGfL are now saving significant sums of money every year thanks to adopting VoIP. Visit www.VoIP.lgfl.net for more information.

■ Wireless networking (Wifi)

Secure wireless networking that integrates seamlessly into the security model provided by your LGfL connection. Visit www.wifi.lgfl.net for more information.

LEARN MORE

CONNECTIVITY

■ The LGfL2 core network has delivered a 100% uptime 24/365 since completion in 2012. LGfL can provide connections from 10Mbps to 10Gbps, and all the London schools which joined 'LGfL 2.0' are currently benefitting from the offer of a free upgrade; so for example, those on 10Mbps signing up for a new term are being upgraded to 40Mbps for free.

■ 'FTTC' which is sometimes offered to schools is a cheaper product which uses a standard telephone line to connect to the internet. You can find more information on FTTC and the difference from LGfL's fibre-all-the-way at www.schools.lgfl.net

■ Because LGfL has invested strategically in high-capacity infrastructure, future upgrades will always be affordable and not require capital spend by schools.

■ The equipment is owned, monitored and supported by LGfL. Should a unit fail it will be replaced on site without charge. There is free unlimited access to the service desk team, and real-world IP addresses are available where needed.

■ The LGfL regional network is high powered and highly secure. Unlike connecting directly to the internet, your school is served by a large, safe, private network dedicated to schools. The network is protected from hackers

and other kinds of external intrusion which are common sources of risk on the public internet used by other suppliers.

■ The LGfL network also benefits from fast direct connections to all the main sources of data and information used in schools (Google, BBC etc). This is known as direct 'peering' and it avoids the congestion which occurs on the public internet. There are also very large direct and secure connections to the internet. With over 120Gbps available, LGfL has more 'IP transit' than most small developed countries.

■ London schools make far more use of online resources than any other UK region (the statistics show it clearly), which is explained by the higher dedicated bandwidth served to schools by LGfL for over a decade, making working online a pleasure. In the 2000s, when some schools stayed with lower

bandwidth while others chose to upgrade, it became clear that schools with high bandwidth made more and better use of ICT, because it was fast easy and enjoyable.

SECURITY AND SAFEGUARDING

Dedicated Firewall

■ Cisco is the de facto manufacturer of high quality, reliable Internet equipment. LGfL does not use cheap low grade substitutes.

Internet filtering

■ With LGfL's WebScreen2 schools can block or unblock websites easily, and take control, deciding what categories, or individual sites, to allow or deny access to.

■ Webscreen allows different policies for different people, for example giving staff access to a wider range of internet sites than pupils. Individual computers, e.g. in the Head's office, can be designated with a more open policy. Even access depending on the time of day can be set, if required. E.g. allow online games only after school.

■ Training for each school's LGfL Nominated Contacts is free and delivered in a dedicated training centre.

E-mail filtering

■ Every StaffMail user can receive a summary of the spam e-mails which have been quarantined each day, to prevent anything you might wish to see being overlooked. You can cancel this if preferred, or add favoured senders to your own 'allow' list.

■ On an average day, two million e-mails are targeted at LGfL users and half of these are filtered out because they are either spam (unsolicited bulk e-mail) or carrying malicious spyware, malware, Trojans or viruses.

Sophos Enterprise anti-virus protection

■ LGfL does not encourage schools to use low grade virus protection which offers no quality assurance, or free products which are generally free

because they warehouse your data and provide only limited protection.

■ To see how many £'000s Sophos Enterprise would cost if bought separately visit www.buy-sophos.co.uk Schools without proper virus protection are known to have been scammed out of thousands of pounds by infections such as Cryptolocker (search online to find out more).

Identity management – secure logins for all

■ With only one login to remember, teachers and pupils can access all LGfL systems and resources, and, if authorised, even log in to the school's own servers and systems from home. These USOs (Unified sign ons) can also synchronise your LDAP Server so where a local network login is used, it is one and the same login.

■ Creating all those logins and keeping them up to date, as pupils and staff join or leave, could be a major headache. Not so with "AutoUpdate", which interacts automatically with your school's MIS system. We can also offer help with the task of securely distributing usernames and passwords to colleagues and pupils – there is a One-Minute-Guide at www.schools.lgfl.net

■ Where additional security is needed, the system supports second-factor authentication using a personal one-time password key.

Safeguarding advice and resources

■ Creating www.counterextremism.lgfl.net in response to schools' new statutory obligations is indicative of LGfL's commitment and capability in this area. All pupil-facing staff should give time to familiarise themselves with the materials at www.safety.lgfl.net

■ Why not start with one of our series of One-Minute-Guides at www.1MG.lgfl.net? LGfL has also created a comprehensive Security Guidance booklet available at www.schools.lgfl.net

Remote access – log in to your school network from home

■ Increasing use of remote access is

one more reason why schools really need 'full broadband' rather than the slow upload speeds provided by 'xDSL' or 'FTTC'. When logging into school from home, even if you have a superfast connection at home, anything you wish to download is dependent upon your school connection's **upload** speed.

CURRICULUM SUPPORT

There are over a hundred different titles for Primary and Secondary use, some licenced from commercial publishers, and some special developments by LGfL. You can review these at www.showcase.lgfl.net or use 'Curriculum Central' www.cc.lgfl.net to find resources that provide coverage for particular National Curriculum descriptors. Here are a few examples:

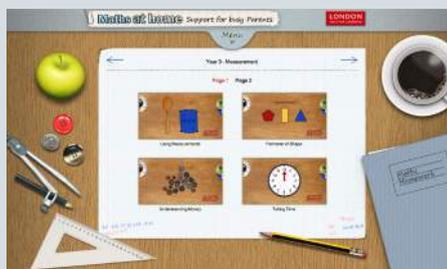


■ The BETT-award-winning busythings is LGfL's most popular online educational resource, featuring hundreds of award-winning curriculum-linked games, activities and downloadable resources that support the Early Years Foundation Stage learning goals, and all subjects in the revised curriculum for KS1 and KS2. The resource is receiving a comprehensive upgrade in January 2016 which will further enhance its breadth of coverage and accessibility across all devices.



■ CyberPass represents a step change in support for online safety education, providing teachers with a trackable, data-rich, competence-based online

safety assessment and training tool. CyberPass provides a diagnostic tool to help teachers identify strengths and weaknesses in their online safety curriculum planning in order to target time and resources on the topics that children really need support for.



■ The Maths at Home resource is designed to provide support for busy parents who wish to help their children's mathematical development at home. A video has been made for each statement across the entire Primary Maths National Curriculum. Each video is a snapshot of how many schools teach the particular strand, and also provides ideas for parents to support their children at home.

There are also topic-based and unique digital collections, which all include cross-curricular support material built in. These LGfL productions have received BETT Award recognition:

- Tudors in London (special commendation)
- Romans in London (finalist)
- History of Computing (winner)

MyUSO

■ For younger pupils, the personal login can be made as simple as clicking on "Duck, Lion, Duck, Horse" instead of remembering a typed password.

MyDrive

■ Need to save work from your iPad or Android phone at home and then access it on your PC at school? Or you want your pupils to do the reverse – without exposing your schools to the risks of using unmonitored cloud storage? MyDrive is the answer. You can also use MyDrive as a file sharing solution – a way of securely making a file available to a group of other people, be they colleagues or pupils.

COMMUNICATION SERVICES

StaffMail

■ Mail folders are accessible through standard browsers, Outlook and mobile devices, and an ample 5Gb of storage is provided for every user. The service supports personal and shared calendars and address books, and a new facility introduced in 2015 maintains a secure 12-month archive of all mail so that if you delete something which is of real importance to you, it hasn't gone for ever.

■ LGfL can host your preferred domain name so you can keep your .sch.uk email addresses, or whatever other domain you have chosen to use.

SafeMail for pupils

■ SafeMail is an enhancement to the e-mail service for pupils which allows the school to control the range of senders and receivers a child can interact with, from 'my class only' through a series of levels all the way to 'everyone'.

Web hosting

■ All the technical details you need can be found at www.hosting.lgfl.net

■ A variety of internet protocols are supported, including ASP.Net, PHP and Python, and all content is backed up on a nightly basis. You remain fully in control, with access to your hosting environment via a secure online-management interface (FTP management is also available).

■ LGfL also provides comprehensive Domain Name Server (DNS) services as required, for all your hosting and browsing needs.

Microsoft Office 365

■ Employing LGfL's USO authentication means there is still only one password for staff and pupils to remember, and gives schools complete control over user access, which is not otherwise available. Account creation, monitoring and account deletion are also put into the control of the school.

Provided by Microsoft for education use, the 'Education A2' plan was previously only available to schools with a separate Microsoft login, which would have removed schools' control over user access, and critically, account monitoring and deletion. LGfL has now integrated Office 365 into users' USO login, giving the same easy, anywhere access, but with LGfL-standard controls and safeguards.

Secure document transfer

■ You can choose which individuals or groups may view your file(s), or retrieve or edit a file. You can set different levels of security, including if you wish to require OTP-key access to a file; and most importantly, the system generates an audit trail of all file access for full traceability and accountability.

■ Files can also be made available for secure access by a third party who does not have a USO account (e.g. an NHS contact), and where required, third parties can also be invited to send a file securely.

Video conferencing

■ Cisco Jabber is completely interoperable with the existing LGfL VC network, JVCS and other standards-based endpoints, and can be run from any computer in school or at home. In addition to HD webcam images, you can also broadcast your active screen in real-time if you wish. To enable Jabber, receive your ID number with one click, and to download the desktop software, visit www.jabber.lgfl.net

VideoCentralHD

■ Upload and share video and audio files in a controlled, secure environment. Good for creating audience for pupils' best video work or the Nativity play. Visit www.videocentralhd.lgfl.net and change "Most Recent" to "No Limit" to browse videos set to 'public'.

Service desk

■ UK-based dedicated school Service desk open 8am to 6pm and support cases can be raised online 24/7.

THIS DOCUMENT GIVES ONLY AN OVERVIEW OF ALL THAT IS INCLUDED ALONG WITH YOUR LGfL BROADBAND CONNECTION. FOR THE FULL STORY VIST WWW.SCHOOLS.LGfL.NET