

# NuLink Digital's IP Network Congestion Management Policy

NuLink is committed to providing each of our customers with the best Internet experience possible. To this end, NuLink employs minimally invasive network congestion management processes that are consistent with industry practices, insure fair and equitable network resources sharing, minimize network congestion and maximize user enjoyment.

**Because NuLink values each customer and recognizes that everyone's usage of the Internet may differ, NuLink does not impose usage limits, usage caps, or penalties for usage that exceeds a threshold.**

NuLink uses two processes to accomplish its congestion management goals; traffic prioritization and, to a limited degree, protocol specific equitable bandwidth constriction.

NuLink's traffic prioritization works by placing a high priority on time sensitive traffic such as messaging and collaboration, telephone and most on-line gaming traffic. This prioritization is provider neutral, so our customers will experience the same low network latency for these protocols and services whether the traffic originates with NuLink, or any one of the multitude of sources or providers that use the Internet as their transport medium. The use of such prioritization ensures that these time sensitive services perform without issue on NuLink's network. Below is a comprehensive list of specific protocols that are assigned high priority on NuLink's network:

|                            |                       |
|----------------------------|-----------------------|
| Collaboration Suites       | IMAP4-TLS             |
| First Class                | MAPI over DCE RPC     |
| GroupWise                  | Netwise Calendar      |
| Lotus Notes                | POP3                  |
| SubEthaEdit                | POP3-TLS              |
| Community                  | SMTP                  |
| BitCoin                    | SMTP-TLS              |
| Facebook iPhone            | Evernote iPhone       |
| Glynx                      | Geographical          |
| Habbo Hotel                | Nearby iPhone         |
| Lunarstorm live            | Group Chat            |
| Nntp                       | Ares chat             |
| Palace chat                | chat at chat.zone.com |
| SmartFox                   | chatango              |
| SmugShot iPhone            | IMVU                  |
| Dictionary Server Protocol | IRC                   |
| Distributed Computing      | SILC                  |
| BOINC                      | Voodoo chat           |
| distributed.net client     | Hanwha Eagle Office   |
| Plura Processing control   | Instant Messaging     |
| E-mail and Callendaring    | 51GuaGua              |
| IMAP4                      | Ali WangWang          |

|                           |        |                            |
|---------------------------|--------|----------------------------|
| Ali WangWang web request  |        | Eyeball Chat               |
| AOL Desktop               |        | ooVoo                      |
| BaiduHI                   |        | Polycom video conferencing |
| BuddyBuddy                |        | Qik                        |
| CamFrog                   |        | SightSpeed                 |
| Daum Messenger Touch      |        | Tandberg Movi              |
| Daum My People            |        | Tango                      |
| ebuddy                    |        |                            |
| fetion                    |        | VOIP                       |
| fring                     |        | Dragon Dictation           |
| genie                     |        | Easy Talk                  |
| gizmo5                    |        | EchoLink                   |
| hello                     |        | Fring voice                |
| heytell                   |        | Google Talk video for      |
| heywire                   | Maemo  |                            |
| kakaotalk                 |        | H.323                      |
| Lava-Lava                 |        | HAM                        |
| Lotus Sametime            |        | HotSpot@Home               |
| Mail.ru                   |        | IAX                        |
| MissLee                   |        | MGCP                       |
| MovaMessenger             |        | Neighbourhood service      |
| MSN Messenger             |        | RTP                        |
| MSRP                      |        | RTP Multicast              |
| NateOn                    |        | SCCP                       |
| OSCAR                     |        | Scydo                      |
| Palringo                  |        | SIP                        |
| Paltalk                   |        | Skype                      |
| Paran Messenger           |        | SparqVoIP                  |
| PoPo2007                  |        | Talkatone                  |
| QQ                        |        | Talkbox                    |
| Radmin Communication      |        | TeamSpeak                  |
| Tachy                     |        | Tribair SSL                |
| Trillian Astra            |        | TVI connect                |
| Twitter                   |        | Unistim                    |
| UniMSG                    |        | Ventrilo VoIP              |
| WhatsApp                  |        | Ventrilo VoIP udp          |
| Windows Messenger Service |        | Viber                      |
| Woori Messenger           |        | vivox                      |
| Xfire                     |        | Voicechatter               |
| XMPP                      |        | Voxer                      |
| XMPP-TLS                  |        | WebEx Audio                |
| Yahoo! Messenger          |        | Xbox Live Chat             |
|                           |        | XMPP RTP                   |
| PBX                       |        | ZRTP                       |
| CallPad                   |        |                            |
| Picocell                  | Gaming |                            |
| AT&T Microcell            |        | 007: Blood Stone           |
| Private Chat              |        | 9Dragons                   |
| RTMFP                     |        | A Tale in the Desert       |
| talk                      |        | A3                         |
| Video                     |        | AdventureQuest Worlds      |
| Bambuser                  |        | Advertising                |

Age of Armor  
Age of Conan  
Age of Empires 3  
Aion  
Aion Chat  
Albatross18  
All Seeing Eye  
Allods  
Allods Login  
America's Army  
Anarchy Online  
Anarchy Online Login  
Angels Online  
Anno 1701  
APB Reloaded  
Archlord  
Asheron's Call  
Audition Online  
Avadetect  
Battle for Wesnoth  
Battle.net  
Battle.net login  
Battle.net Web Client  
Battlefield 1942  
Battlefield 2  
Battlefield 2142  
Battlefield Heroes  
Battlestar Galactica Online  
Black Prophecy  
BlitzIn  
Blizzard web client  
Bloodline Champions  
BOTS  
Bounty Bay Online  
Breed  
Brettspielwelt client  
Cabal Online  
Call of Duty  
Call of Duty 4  
Call of Duty: Black Ops  
Call of Duty: Modern Warfare 2  
Carcassonne iOS  
CastleCraft iPad  
Celestial Impact  
Cheat Prevention  
Chi Bi  
ChinaGame  
City of Heroes  
City of Heroes update  
Civilization 4  
Cocoto Racing iPad  
Command&Conquer 3  
Conquer Online  
CorumOnline  
Counter-Strike  
Crysis  
Crysis 2  
Da Hua Xi You 3  
Dance! online  
Dark Age of Camelot  
Dark Story Online  
Dark Eden  
Darkorbit  
Dawn of War  
Day of Defeat  
Day of Defeat: Source  
Deicide Online  
DemonWare  
Diablo 2  
Dofus  
Doom3  
Dragon Sky  
Drakkar Zone  
Dream of Mirror Online  
Dreamlords  
Dungeon & Fighter  
Dungeon Runners  
Dynasty Warriors Online  
EA Sports game  
EA Sports game PS3  
EA Sports game transfer  
EA:Nation  
Enemy Territory: Quake Wars  
Eternal Lands  
EVE Online  
Everquest II  
Exteel  
Exteel Lobby  
Fallen Earth  
Fantasy Westward Journey  
Farming Simulator  
FarmVille iOS  
FEAR  
FeiLei  
Feng Shen Bang  
Fiesta  
Fiesta Login  
Final Fantasy XI  
Final Fantasy XIV  
FlightGear  
Florensia  
Fly For Free

Football Manager Live  
Freeciv  
FreeCol  
FreeOrion  
Frontlines  
FunCom updater  
Furcadia  
Fury  
Fury update  
Galaxy Online  
Galcon  
Gamarena  
Game Engines  
Gameloft Login  
GameRanger  
GameSpy  
GameSpy chat  
GameSpy game  
Gamezer  
GG Game  
Ghost Recon 2 PS3  
Global Agenda  
Globulation 2  
Gore  
Gore update  
Graal Online  
Grand Chase  
Guild Wars  
Gunbound  
Gundam Online  
Gunz  
H.A.W.X 2  
Half-Life  
Half-Life 2: Deathmatch  
Handheld  
Hangame GoStop  
Hao Fang  
hero Online  
Heroes of Newerth  
HLSW  
Holic  
Insurgency: Moden Infantry Combat  
Iris Online  
JavaBBowl  
Jumpgate  
KartRider  
Knight online  
KOG game update  
Last Chaos  
League of Legends  
Left4 Dead 2  
Legend of Ares  
Legend of Martial Arts  
Lego Universe  
Lineage  
Lineage II  
Little Big Planet  
Lord of the Rings  
Luminary  
Mabinogi  
Madden 06  
Madden 07  
Madden 08  
Magic Online  
Maple Story  
Medal of Honor Tier 1  
Metin2  
Minecraft  
MixMaster  
Modern Combat: Domination  
Mu Online  
Multi Theft Auto  
MythWar  
Navy Field  
Navy Field update  
NBA Live 07  
Neocron 2  
NeoSteam  
Neverwinter Nights 2 update  
Neverwinter Nights update  
Nexuiz  
NHL 07  
NHL 08  
NHL 2010  
Nintendo DSi Shop  
Nintendo Wi-Fi  
Nintendo Wi-Fi game  
Nonoba Multiplayer  
Nord  
NosTale Online  
Oberin  
OpenArena  
OpenTTD  
OurGame  
Perfect World  
Pirates of the Burning Sea  
PlaneShift  
PlayOnline  
PlayOnline update  
PlayStation  
PlayStation 3 firmware update  
Pocket Legends iPad

Postal 2  
PoxNora  
ProEvolution Soccer  
Project Blackout  
Puzzle Pirates  
QQ web request  
QQ Game  
QQ Game login  
QQ Game web request  
QQTang  
Quake2  
Quake4  
Quake III Arena  
QuakeLIVE  
Ragnarok Online  
Rakion  
Rappelz  
Rappelz revolution update  
Realm of the mad god  
Realm of the Titans  
Red Stone  
Return to Castle Wolfenstein  
RF Online  
Richman Online  
Ricochet  
RIFT  
Rising Eagle  
Rubies of Eventide  
Ruined  
Runescape  
Ryzom  
S.T.A.L.K.E.R.  
Savage2  
Savage2 login  
Scions of Fate  
Scrabulous  
Seafight  
Shadowbane  
Shaiya  
Shockplay  
Silkroad Online  
Softnyx login  
Soldier Front  
Soldier of fortune 2  
Sony Station login  
Source engine game  
Source engine map transfer  
Source engine server  
Spore  
Star Trek Online  
Star Wars Galaxies

StarCraft 2  
Street Basketball  
Sudden Attack Sea  
Suzhou Tangren You  
Sword of the New World  
Tabula Rasa  
Tales of Pirates  
Talisman Online  
Team Fortress  
Tetris  
The World II  
Tian Long Ba Bu  
Tibia  
TibiaME  
TimeShift  
Titan Quest  
Touch Tanks iPad  
Tremulous  
Trickster  
Turbine game  
Turbine updater  
Twelve Sky  
Two Worlds II  
Two Worlds II: login  
Ultima Online  
Universe at War  
Unreal 2: expanded multiplayer  
Unreal keepalive  
Unreal Tournament  
Unreal Tournament 3  
Unreal Tournament 3 demo  
Upshift StrikeRacer  
Vanguard  
Vassal  
Vendetta Online  
VS. Game  
War Inc: Battlezone  
War Rock  
Warcraft 3  
Warhammer Online  
Warmonger  
WarpFire  
Warsow  
Water Margin  
WenDao  
Wii  
Wii Firmware update  
Wii Connect 24  
words with friends HD iPad  
World in Conflict  
World of Warcraft

Wu Lin Wai Zhuan Online  
Wyvern  
Xblaster  
Xbox  
Yahoo! games

Yulgang  
Zentia  
Zero Online  
ZhuXian  
Zon

NuLink's protocol specific equitable bandwidth constriction works by setting a margin for each video stream established between a user's modem and a legitimate commercial IP streaming video provider to the lesser of the capacity provided by the subscriber's service package, or 2.5 Mbps. This margin is placed on each stream on all modems associated with each residential Internet subscription in an effort to insure that no one stream inequitably dominates NuLink's network resources, and all modems have fair and equal access to those resources. Because a high amount of bandwidth is allocated to each stream's margin, little or no effect should be experienced by NuLink customers. Below is a list of protocols that may be subject to NuLink's protocol specific equitable bandwidth constriction:

Abacast  
Babelgum  
BBC IPlayer Desktop  
CCCam  
DMAP  
EBS lecture  
FastTV  
Flash video over HTTP  
HTTP Media stream  
HTTP RealPlayer stream  
iTunes Store  
Joost  
KyLin  
Live Delivery Network  
LiveStatin  
LocationFree player  
LuxRiot  
MegaTV  
Miro  
MMS  
Move Media Player  
Movielink Manager  
MythTV  
Netflix  
Newcamd  
nFusion FTA

Octoshape  
PDBox W  
PPStream  
PPTV  
QQ video  
Radegast  
Raw MPEG-TS  
RTCP  
RTMP  
RTMPE  
RTMPT  
RTSP  
RTSP media stream  
SinaTV  
SK Btv  
SK Btv EPG  
Slingbox media stream  
SpotLife  
StreamerOne  
STTV  
ThunderYouYou  
Truveo iPhone  
Vodder  
Vusion stream  
Zattoo