

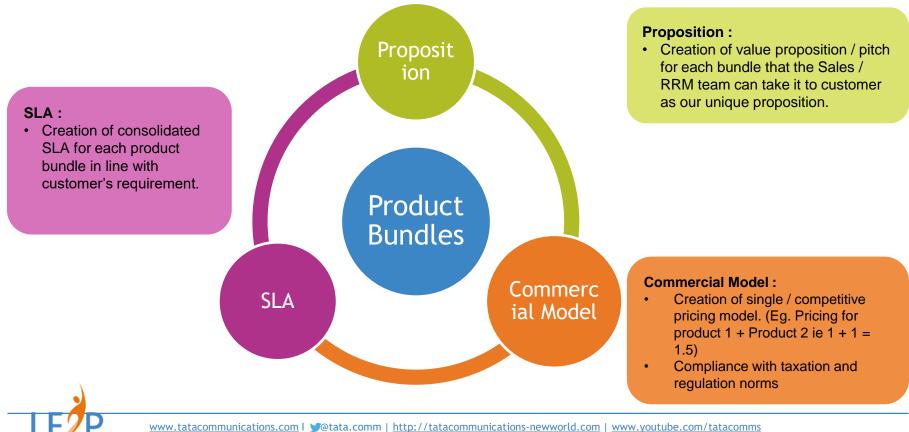


PRODUCT BUNDLES

OUR APPROACH

TATA COMMUNICATIONS





© 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.



Proposition No.	Product Bundles
Proposition 1	ILL + mUTM
Proposition 2	ILL + Vproxy
Proposition 3	ICS + MPLS / ILL
Proposition 4	ILL + DDoS



www.tatacommunications.com | j@tata.comm | http://tatacommunications-newworld.com | www.youtube.com/tatacomms © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.



ILL + UTM



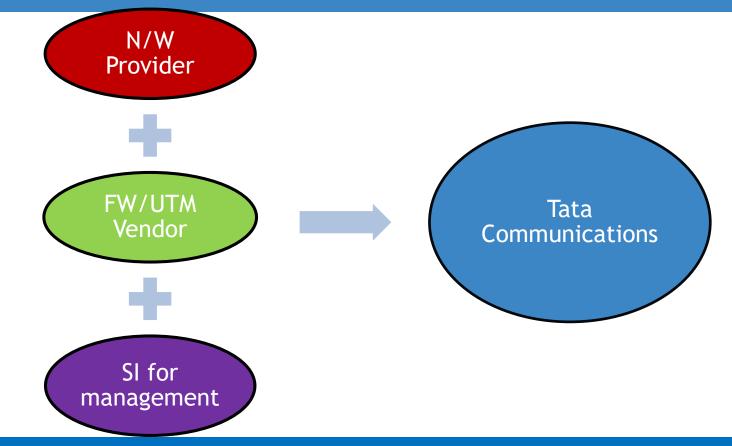
Making a office ready to access a SaaS applications without worrying about Security

Move from multiple vendors to single SPOC

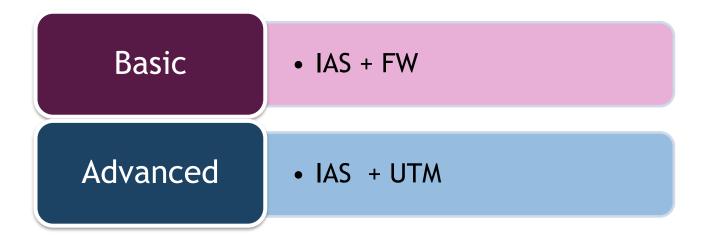
Secured internet access along with management from Tata Communications

Integrated SLA









FW/UTM - Predefined models based on bandwidth supported



Basic Package	Advanced Package
Internet Network	Internet Network
Basic Firewall	Basic Firewall
NAT	NAT
Site to Site IPSec	Site to Site IPSec
Client to site IPSec VPN	Client to site IPSec VPN
SSL VPN	SSL VPN
Performance Reporting	Performance Reporting
24x7 Monitoring	24x7 Monitoring
Managed Services	Managed Services
	Intrusion Prevention
	Web filtering
	Anti Virus



BENEFITS SINGLE DESK OPTIONS AS A SERVICE INTEGRATED Single point of FW only and UTM as Bandwidth based Network and Security pricing model with contact for service per branch category network and security issues bundle



ILL + VPROXY



Direct secure access to Web and SaaS based applications for users

Move from multiple vendors to single SPOC

Secure internet access to user irrespective of his location

Cloud ready security



FRESH THINKING: 'DIRECT TO INTERNET' THE NEW NORMAL

Perimeter is dynamic

Applications and data are moving to the cloud

Users going direct to Internet

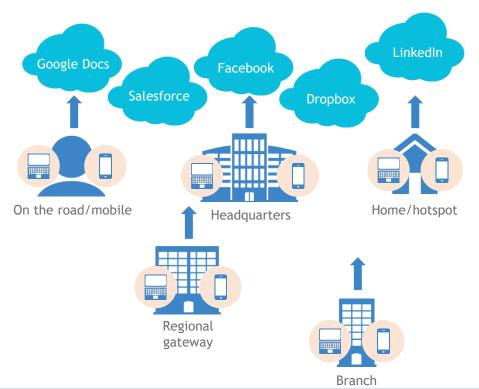
- VPN not a desirable option
- 3G/4G traffic does not go through appliance

Gateway proxies and firewalls get bypassed

- Traffic backhauling too expensive
- Latency leads to unhappy users

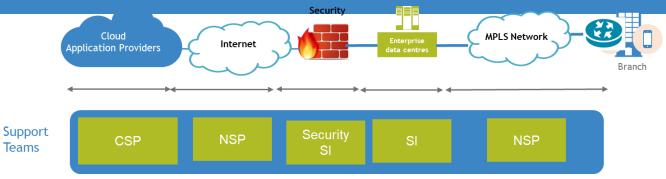
"A few years ago, 90% of my MPLS traffic was for applications in my corporate data centre and 10% was Internet-bound. Now, it's just the opposite."

CIO, Fortune 50 company

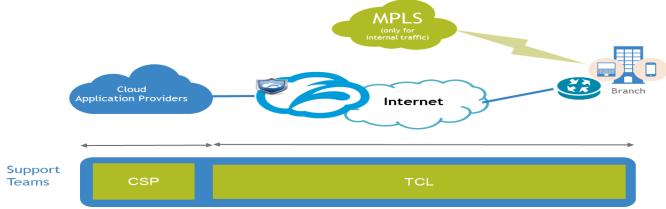


www.tatacommunications.com | www.youtube.com/tatacomms © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.





PROPOSED SERVICE MODEL - SECURE CONNECT WITH VPROXY





Silver

- Standard Internet
- Professional Suite

Gold

- Standard Internet
- Business Suite

ΤΑΤΑ COMMUNICATIONS



Silver Package	Gold Package
Global Cloud Platform	Global Cloud Platform
Basic outbound firewall	Basic outbound firewall
Real-time reporting	Real-time reporting
File type control	Standard behavioural analysis
URL filtering	URL filtering
Inline anti-virus and anti- spyware	Inline anti-virus and anti- spyware
	Advanced threat protection
	Cloud App control
	Web access control
	SSL inspection

TAME CONVENIONS



For Silver

BW(Mbps)	Users Option 1	Users Option 2	Users Option 3			
1	5	10				
2	5	10				
3	10	20				
4	10	20				
5	10	20				
10	20	30	40			
15	25	30	50			
20	30	40	50			
25	40	50	75			
30	50	75	100			
35	50	75	100			
40	75	100	150			
45	75	100	150			
50	100	150	200			
60	100	150	250			
70	150	200	300			
80	200	250	350			
90	200	250	350			
100	250	350	500			

For Gold

DW//Mbpc)	Users	Users	Users		
BW(Mbps)	Option 1	Option 2	Option 3		
1	5	10			
2	5	10			
3	10	20			
4	10	20			
5	10	20			
10	20	30	40		
15	25	30	50		
20	30	40	50		
25	40	50	75		
30	50	75	100		
35	50	75	100		
40	75	100	150		
45	75	100	150		
50	100	150	200		
60	100	150	250		
70	150	200	300		
80	200	250	350		
90	200	250	350		
100	250	350	500		







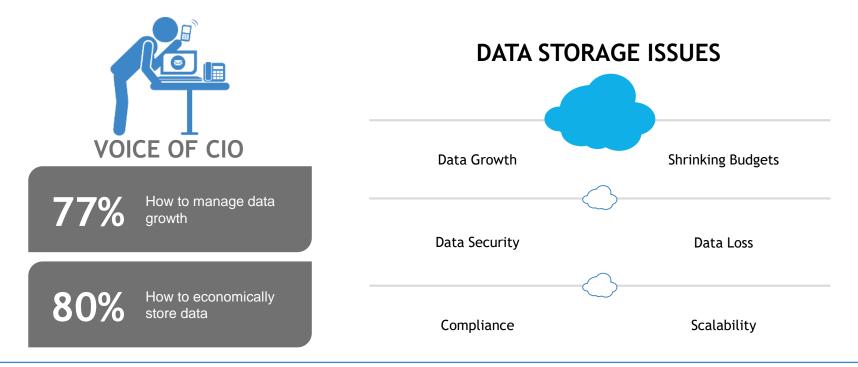
CONNECTED STORAGE CLOUD CONNECT





DATA STORAGE MANAGEMENT IS NOT EASY

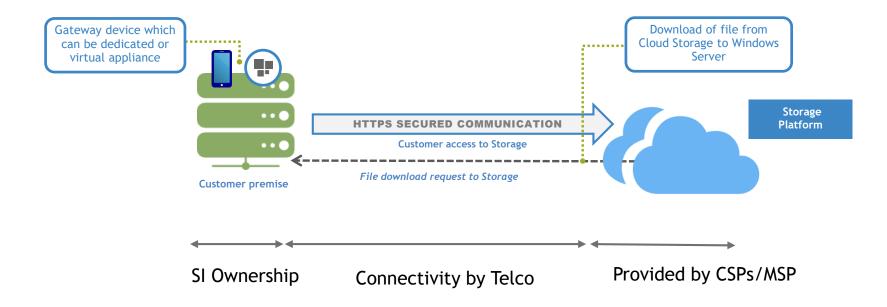
MANAGING DATA GROWTH, ECONOMICALLY STORE DATA



www.tatacommunications.com | www.youtube.com/tatacomms © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.



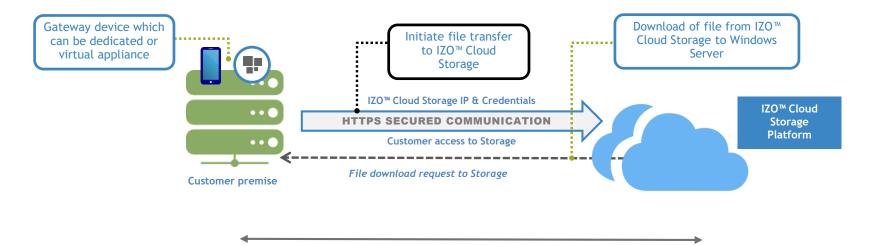
CURRENT SERVICE MODEL FOR ALL CUSTOMERS FOR CLOUD STORAGE



www.tatacommunications.com | j@tata.comm | <u>http://tatacommunications-newworld.com</u> | <u>www.youtube.com/tatacomms</u> © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.



CONNECTED STORAGE MODEL



Integrated Service from a Single Provider

ΤΛΤΛ



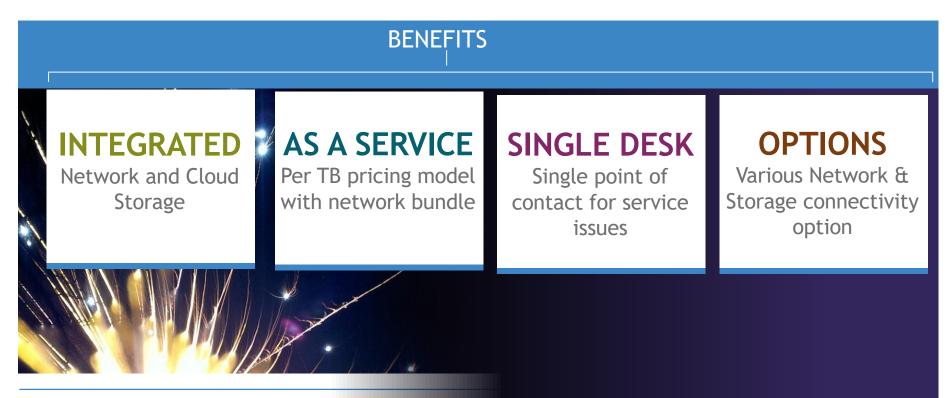
Move from multiple vendors to single TECHNOLOGY PARTNER

Single SLA for cloud storage & Network

Single Desk for Service Delivery & Service Management



CONNECTED STORAGE BENEFITS



CONNECTED STORAGE



Propositions :

ICS+VDOM FW+MPLS ICS+VDOM FW+P2P ICS+VDOM FW+Std. ILL ICS+VDOM FW+Premium ILL

Connected Storage - Bundle 6

Pricing Methodology :

1 year model – Slab wise bundled commercials for ICS+VDOM+Network Burst options available for MPLS (1:4) and ILL (1:10) for additional network usage Commercials applicable only for MAN connected sites PAN India Commercials are constructed in a bundle offer where the base price is arrived at a 15-20% additional discount over individual prices of each component at comm delegation

Connected	Storage - Bundle	26					1	Γ	Connect	ed Storage - Bundl	e 6				
Variant	1 - ICS+VDOM Port+	MPLS Port @ custom	er site and ICS DC	site (Existing &	new custome	ers)		-		DOM Port + Internet Con		For Lossor Data T	rancf	or Roquiro	l
	1		MPLS Port BW	MPLS Port BW	1			<u>it</u>	<u>J-103 VI</u>		nectity at its be site (101131	ernequire	1
ICS quantity	ICS Flavour	VDOM quantity	Customer Site	ICS DC/DR site	Bundled AF	80	Burst Rate per-	F	quantity	ICSElavour	VDOM quantity	Std. ILL BW	Bui	ndled ARC	Burst Rate per Month
1 TB	Value Based	5 Mbps	5 Mbps	5 Mbps	₹	1,61,922	n Rep	0	.5 TB	Value Based	5 Mbps	1 Mbps	₹	35,936	₹ 2,920
2 TB	Value Based	10 Mbps	10 Mbps	10 Mbps	1	2,52,934			78	Value Based	10 Mbps	2 Mbps	₹	50,647	₹ 1,846
5TB	Value Based	25 Mbps	25 Mbps	25 Mbps	₹	5,44,367		2	ТВ	Value Based	25 Mbps	4 Mbps	₹	95,183	₹ 1,740
10TB	Value Based	50 Mbps	50 Mbps	50 Mbps	¥	8,45,321	₹ 776	5	ТВ	Value Based	50 Mbps	10 Mbps	₹	2,20,198	₹ 1,582
15TB	Value Based	75 Mbps	75 Mbps	75 Mbps	₹	10,25,188	₹ 595	1	.OTB	Value Based	75 Mbps	20 Mbps	₹	3,88,928	₹ 1,307
20TB	Value Based	100 Mbps	100 Mbps	100 Mbps	3	11,79,376	₹ 490	1	5TB	Value Based	100 Mbps	30 Mbps	₹	5,13,955	₹ 1,052
25TB	Value Based	125 Mbps	125 Mbps	125 Mbps	₹	13,99,692	₹ 456	2	OTB	Value Based	125 Mbps	40 Mbps	₹	6,15,920	₹ 859

Disclaimer : Price books are under management approval & will be shared shortly with CSG team

and it

1001.000

ALC: Note:





STATISTICS.

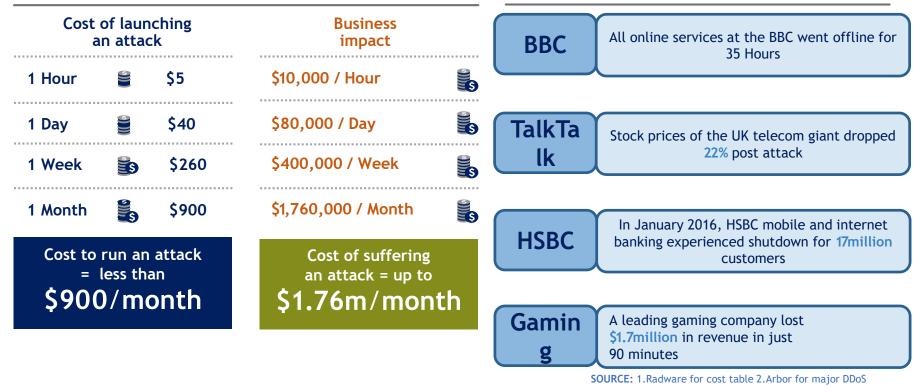
10 12







MAJOR DDoS INCIDENTS



incident table

www.tatacommunications.com | j@tata.comm | <u>http://tatacommunications-newworld.com</u> | <u>www.youtube.com/tatacomms</u> © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.





GLOBAL SCRUBBING FARMS

Our 21 facilities worldwide mitigate attacks closer to the source — limiting latency impact.



Truly international track record building and managing global DDoS protection infrastructure and services.



END-TO-END MANAGEMENT

We take complete ownership – from design and deployment to DDoS infrastructure management.



KEEPING BUSINESS RUNNING

Our extensive global DDoS experience protects against multivector attacks securing business availability with SLA.



NEXT GENERATION THINKING EXTENDS SECURE WORLDWIDE REACH

ADVANCED NETWORK

- Global single network guarantees the most direct data route
- Key player at carrier neutral hotels and Internet exchanges plus extensive peering relations with other global tier-1 ISPs
- The largest Tier-1 ISP in India having balanced traffic of content and eyeballs on our network

GLOBAL INFRASTRUCTURE

- 240+ Internet PoPs conveniently located worldwide
- Access to 70% of world's top 20 content providers — including 4 of the top 5
- Global end-user base through our 550+ ISP customers from over 50 countries
- World's largest private cable owner — literally circumnavigating the world

INDUSTRY LEADER

- 25% global internet traffic share
- Next-generation IP network platform





SMART INTEGRATION ENCHANCES EFFICIENCY AND CUSTOMER EXPERIENCE

NEXT-LEVEL PRODUCTIVITY

- Fully integrated network service and risk protection with flexible pricing options
- Single touchpoint service, assurance and billing
- Minimal provisioning efforts with our internet leads to **faster** secured connectivity

SUPERIOR CUSTOMER EXPERIENCE

- Minimal path alteration from source to destination during mitigation limits latency impact to < 5% – ensuring best network KPIs, even under attack
- Extensive **global track record** detecting and mitigating mDDoS attacks
- CCNA-certified staff monitoring your services 24/7/365



INBUILT SECURITY AT NETWORK EDGE ENSURES PEACE OF MIND

GREATER SECURITY PROMOTES BUSINESS CONTINUITY

- Our 'one AS-hop' rule means scrubbing farms and Internet PoPs spread helps detect/mitigate attacks nearest to source

 minimising dependency on external bandwidth
- 15+ TBPS of internet backbone on owned cable routes worldwide provides immense capacity to handle mDDoS attacks – whatever their size
- Integrated approach enables mitigation at higher level of granularity

GLOBAL PROVIDER REASSURANCE

- Tier 1 global network carrying 25% of global internet traffic share
- Global owned cables, 240+ Internet PoPs and 17 DDoS scrubbing farms worldwide
- Single network, extensive global peering with ISPs globally at carrier neutral hotels and internet exchanges help deliver superior internet experience

INTERNET WITH MDDOS BUNDLES



Option-1					
Bandwidth	DDOS Mitigation				
(Mbps)	Capacity (Mbps)				
1	500				
2	500				
4	500				
5	500				
10	1000				
15	1000				
20	1000				
25	2000				
30	2000				
35	2000				
40	2000				
45	2000				
50	2000				
60	2000				
70	2000				
80	2000				
90	2000				
100	2000				

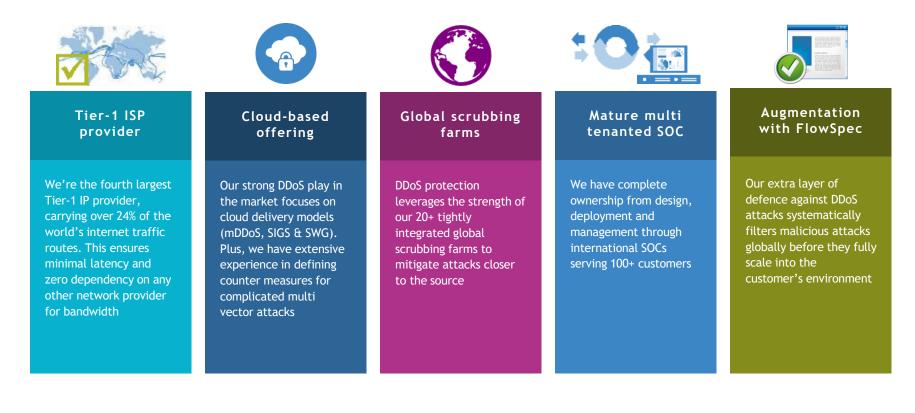
Option-2

•						
DDoS Mitigation						
Capacity (Mbps)						
500						
500						
500						
500						
500						
500						
500						
1000						
1000						
1000						
1000						
1000						
1000						
1000						
1000						
1000						
1000						
1000						

www.tatacommunications.com | www.youtube.com/tatacomms © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.

WHY INTERNET WITH MDDOS FROM TATA COMMUNICATIONS





THANK YOU

tatacommunications.com

www.tatacommunications.com | 🐓 @tata_comm http://tatacommunications-newworld.com www.youtube.com/tatacomms © 2016 Tata Communications. All Rights Reserved. TATA COMMUNICATIONS and TATA are trademarks of Tata Sons Limited in certain countries.