KeyRider Scrambling / Stream Protection

Protection management for your content monetization

Protect your system against unauthorised viewing and dangerous server overflow. Uses strong AES 128 encryption required by content owners.

Key Server defines keys and assign them to specific channels. Key server continuously generates new version of keys in defined interval (for each key the interval can be defined independently) - key rotation. Media Streamer periodically downloads new versions of keys and encipher the channels which it finds in keyserver definitions using strong AES-128 algorithm. For mediaplayer decipher there is in playlist KeyID for each video segment included. Player asks KeyServer for the exact key using http XML request whichis protected by even stronger AES-256 algorithm. KeyServer answers with the key or not based on the client database. For communication with KeyServer each client has assigned unique cipher key. In case of compromising unique end-user device i tis possible to block this device separately, not to endanger the whole system. To allow to operate archive (catch-up TV) the keys are stored on the KeyServer up to one year.

System components:

- Antik Media Streamer
- Key Server
- CPE devices:
 - STBs
 - smartphones (iOS, Android, Win8
 - tablets
 - PC
- Customer database

Key features

- multiplatform solution STB, Android, Win8, iOS and multicast delivery
- designed for TV Everywhere (OTT) enviroment
- using above industry standard AES-128 algorithm - 128bit long key!
- protects live streaming, catchup (archive), VOD and PVR
- easy to install and operate on standard HW equipment
- AES 256 used for data exchange between servers and devices



Monitoring						이 아이는 것 같은 것 같아요. 아이는 것 같은 것 같아요. 이 가지 않는 것 않는 것 같아요. 이 가지 않는 것 않는	
ETH: primary (eth0) RAM CPI	U LOAD	REDIS F	AM USAGE FIREWALL DATETIME, UPTIN	Æ			
TX OMB/500Mb /193.97 MB	0.00	25	99MB ENABLED Sun Mar 17 08:42:10 C	ET 2013			
RX O 0Mb /500Mb /3.87 GB	/4 cores	30.	Show rules 16d 6h				
Encryption keys Refres	h						
A second							
Channels	by Key ID						
Client requests			Submit				
All requests Active	keys						
Error requests	ID	RENEW	ACTIVE VERSION	LATEST VERSION		OLDEST VERSION	VERSIONS
Known clients Detail	STV1	1min	Version 1363506100 Generated 2013-03-17 08:41:40 (-34sec)	Version 1363506100 Generated 2013-03-17 08:41:40 (-34sec)		1361444344 2013-02-21 11:59:04 (-23d 20h)	30866
CDN requests	3101		Value 386363a8f0d5ff06d4f572599e3363ee	Value 386363a8f0d5ff06d4f572599e3363ee		2013-02-21 11:59:04 (-23d 20h) 85d5e87996142c83c0b9bee4a4ef9140	30806
Known CDN servers		1min	Version 1363506100	Version 1363506100	Generated 20	1361444344	
All requests Detail	MARKIZA		Generated 2013-03-17 08:41:40 (-34sec) Value 4d6503b31877862fd6431e40b4b41908	Generated 2013-03-17 08:41:40 (-34sec) Value 4d6503b31877862fd6431e40b4b41908		2013-02-21 11:59:04 (-23d 20h) 98a87c756607b8e6f18dbbc8dab05a89	30864
Logs		1min	Variab 4005055107786210645164054541908 Version 1363506100	Variation 1363506100	Version 1361444344 Generated 2013-02-21 11:59:04 Value 169278c5b8ec0dodd		
Main process Detail	STV2		Generated 2013-03-17 08:41:40 (-34sec)	Generated 2013-03-17 08:41:40 (-34sec)			30861
Client import	-		Value 1ce82e4c904aab9754be9f05b7c841ff	Value 1ce82e4c904aab9754be9f05b7c841ff		169278c5b8ec0dcd64bddbdb7e1a66bf	
Channel Import Detail	DOMA	1min	Version 1363506100 Generated 2013-03-17 08:41:40 (-34sec)	Version 1363506100 Generated 2013-03-17 08:41:40 (-34sec)	Generated 2013-02-	1361444344	30858
Errors	Down		Value 5b25e6e2b79d12c5b0d7eef877f57591	Value 5b25e6e2b79d12c5b0d7eef877f57591		fc390413c57fe2e6a2ba25ecf69e4255	39806
Test utils	Detail JOJ	1min	Version 1363506100	Version 1363506100		1361444344	
Detail			Generated 2013-03-17 08:41:40 (-34sec) Value c0afad39c9fd976f46b336f19e890f00	Generated 2013-03-17 08:41:40 (-34sec) Value c0afad39c9fd976f46b336f19e890f00		2013-02-21 11:59:04 (-23d 20h) 9f10dedb3bd8d92a7606f6b97ddac0d2	30856
		1min	Version 1363506100	Version 1363506100	Version	1361444344	
Detail	JOJPLUS		Generated 2013-03-17 08:41:40 (-34sec)	Generated 2013-03-17 08:41:40 (-34sec)		2013-02-21 11:59:04 (-23d 20h)	30855
			Value a6747bfc1696cbbff2ed7e3d4d0e13e9	Value a6747bfc1696cbbff2ed7e3d4d0e13e9	Value	7a8dd99d615a2c638e5972761b74b424	
Inactiv	e kevs						
	ID	RENEW	LATEST VERSION	OLDEST VERSION	VERSIONS		
			Version 1361374775	Version 1361284328			
Detail	TEST	1min	Generated 2013-02-20 16:39:35 (-24d 16h) Value 723/2547d34ff7d45a47ec016d11e34a	Generated 2013-02-19 15:32:08 (-25d 17h) Value 92d941a7b5bd5c933236c8f4cd196dfd	1468		
		-	Version 1361374775	Version 1359374149			