

Final Report

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AFOSR/AOARD Program Manager: Hiroshi Motoda, Ph.D.

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PI: K. G. Anagnostakis, Institute for Infocomm Research, Singapore

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A Communication Framework for Collaborative Defense

Final Report, PI: K. G. Anagnostakis, Project end date: February 28th, 2008

(2) Objectives

The goal of this project was to explore the potential for a collaborative approach to network defense. The primary focus of this research was in network traffic classification with the intention of supporting advanced policy enforcement capabilities. The technical approach involved a multi-site testbed of live traffic monitoring systems and the design of algorithms for classifying flows to applications, and for generating signatures for previously unclassified clusters of network traffic.

(3) Status of effort

The effort is currently reaching a mature prototype stage with well-tested algorithms, an extensive test traffic archive, over 1,800 applications classified, Gbit/s capable classification, and live trials on 4 sites with more than 40,000 users. Further development is necessary to turn the research artifact into a production-quality system.

(4) Abstract

The goal of this project has been to implement a collaborative automated signature generation system for deep packet inspection systems. In this report we summarize our results at the conclusion of this project. Briefly, the primary goal of achieving a significant level of automation was successfully achieved, although it proved to be more complex than originally perceived. We have been able to provide sufficient automation to be able to build up the most extensive application signature database in the world with a fraction of our competitors resources. Our approach has been tested extensively using real network traffic from internal networks, trial sites, and networks from which we have received confidential network traffic samples.

(5) Personnel Supported

The project supported the efforts of the project team led by Dr. Anagnostakis, and involved research engineers Kirk Jon Khu, Christos Ricudis, and PhD students Saurabh Aurora, and Asia Slowinska.

(6) Publications

The main results of this research are currently in preparation for journal submission. Indirect results from this research (e.g., studies using data produced by the algorithms in this research) are published in the following venues:

- V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnostakis, **“Puppetnets: Misusing Web Browsers as a Distributed Attack Infrastructure”**, to appear in ACM Transactions on Information and Systems Security (TISSEC), 2009
- H. Bos, B. Samwel, M. Cristea, K. G. Anagnostakis, **“Safe execution of untrusted applications on embedded network processors”**, in International Journal on Embedded Systems, Vol. 3, No. 4, 2008
- E. Athanasopoulos, A. Makridakis, S. Antonatos, D. Antoniadis, S. Ioannidis, K. G. Anagnostakis, and E. P. Markatos. **“Antisocial Networks: Turning a Social Network into a Botnet”**, in Proceedings of the 11th Information Security Conference (ISC’08), September 2008

(7) Interactions

- (a) participation in ISC'08, CSIIRW'08, and visits to UPenn (USA), GMU (USA), and NICT (JP)
- (b) algorithms are further evaluated on real network traffic as part of projects funded by A*STAR and other public R&D funds.

(8) Inventions

None.

(9) Honors/awards

No honors or awards in reporting period.

(10) Archival Documentation

1. Background

Application fingerprinting and identification from network traffic they generate has always been important for ISPs. Recently, the problem of traffic classification has been attracting a lot of attention due to the popularity of novel P2P applications including content streaming and voice over IP (VoIP). The high network connectivity and traffic imposed by these applications have forced many network operators and ISPs towards application profiling with the intention to control the resource consumption on their networks.

There are at least three factors that make application identification both interesting and challenging. First, as new applications emerge at an ever increasing rate, particularly in the P2P space, coming up with signatures for new types of traffic is increasingly time consuming and becomes a bottleneck as signature development, testing and deployment is usually done manually. Second, applications that are generally regarded as undesirable (and are therefore rate-limited or blocked by operators) are starting to employ encryption and other methods for cloaking their identity. Third, some of these applications often consume huge amounts of bandwidth in unpredictable ways that might interfere with proper congestion-controlled traffic. It is conceivable that a very popular application might even bring the network to congestion collapse regimes.

Currently, fingerprints are developed manually by eyeballing application traces. As new applications emerge, new fingerprints need to be developed, and the process can be quite tedious and time-consuming if performed manually.

2. Approach

The original plan at the beginning of the project was to utilize a preliminary implementation of a signature generator that relies on rabin fingerprints[2] for picking up common subsequences across multiple network flows stored in an offline trace. The resulting algorithm, code-named EAR, was applied on a preliminary dataset and was deemed to be promising. The original goal of the project was therefore to build around that algorithm to support increased automation and the ability to operate on real network traffic.

2.1 Interface to DPI engine and support functionality

A prerequisite for this functionality to be implemented is the availability of a suitable DPI engine for application characterization. Although not part of the original proposal or the project deliverables, we have indeed built the necessary engine with the functions needed to support signature generation. These include a) the ability to separate known from unknown traffic, b) the ability to record that unknown traffic for further analysis, c) the ability to operate on both live and offline data through the same interface, d) the ability to test potential signatures for conflicts against other types of traffic.

All these functions are successfully implemented as part of the overall CUB4 engine. Separating known from unknown traffic involved implementing a large part of an actual DPI system. Although there are still many loose ends on this front, the implementation of the core engine is currently mature enough to support live traffic classification at gigabit speeds on commodity hardware.

A special module, called the “dumper” provides the facility for recording traffic to secondary storage for analysis. When a packet arrives from the “raw” channel (through “dumper_recv”) we check the status of the parent flow to determine what to do with the packet. If the flow is already classified and we are interested in the flow, we need to dump the packet to disk. If other packets of the same flow were buffered pending a decision on this flow, we first have to flush the buffer before writing the current packet. From this point on, packets arriving for this flow do not need to be buffered but are sent straight to either disk or are dropped.

We use two pre-allocated buffer pools for packets of different sizes to hold up incoming packets until a decision has been made. These are organized as linked list for $O(1)$ allocation and freeing of buffers back to the pool. We don't care about sequence at this point (there could be locality issues but it doesn't seem to be affecting us in a big way at the moment).

When a buffer is allocated to hold a packet of a particular flow, we also link it through the internal “flow_t” data-structure so that we can instantly find the list of buffered packets for that flow as soon as a decision can be made on the flow. As we cannot hold on to packets forever, there is a limit to how much data we'll keep for a flow before having to make a decision. At this moment the default policy is to nudge the detectors to make a decision, by sending them a distress signal, equivalent to a flow timeout/reset. This may affect results in some cases, as without the dumper they would be left alone and could take different decisions.

Special provisions have also been made to filter out flows for which packet loss events have been detected, as such flows can confuse the signature generator. Such problems may occur because the signature generator will try to find good signatures that cover 100% of the traffic, and under moderate loss those parts of the traffic that are lost may contain the otherwise good signature. This functionality is optional, as one may want to try producing signatures that operate well under high load and potential packet loss. A second special provision is the ability to cap the amount of traffic dumped to secondary storage for a particular flow. This is necessary to reduce storage requirements, and it is also sensible as classification has to be completed as early in the lifetime of a flow as possible.

For evaluating new signatures, we have implemented a conflict detection and resolution component, which can handle cases where more than one signatures belonging to different applications match the same flow. In this case, at least one of the two signatures must be wrong, or neither signature is accurate enough to identify only the traffic of the application it is supposed to detect. For all practical

purposes, conflicts are useful for evaluating signature quality and provide useful information for signature fine-tuning.

With this infrastructure in place, it becomes possible to run our engine live on a network, collect all unclassified traffic, and process that traffic in an attempt to find new applications and fingerprint them, or identify flows that belong to existing applications but for which the existing signatures do not perform well.

2.1 The EAR algorithm

The EAR algorithm takes a content-sifting approach that extracts protocol fingerprints for specific applications. The tool takes as input a set of candidate packet traces containing traffic generated by the application to be analyzed, and a set of control traces containing traffic other than the application in question.

The goal of our technique is to determine substrings within a candidate packet trace of a particular application whose existence indicates that a given packet or flow is generated by a particular application. For this purpose, our tool searches the trace for substrings that appear frequently enough to be considered as an application signature. For a given desired length of the signature, and for each packet in the application trace, we consider each substring of the desired length at each position within the packet, and record its occurrence in a cache structure.

2.1.1 Basic operation

To efficiently perform this kind of scanning within a packet trace, we rely on rabin fingerprints. Rabin fingerprints provide a form of a rolling hash of a given size within a stream of larger size. The main idea is to use appropriately selected polynomials so that the rolling hash can be formed as a sum of the value in each position, and with the ability to easily add the next incoming (e.g., rightmost) value and remove the outgoing (e.g., leftmost) value. This can be easily done with prime arithmetic. Rabin fingerprints have been used in similar problems such as content caching, and worm detection. Our own experience, and inspiration to use rabin fingerprints for generating content signatures, comes from the former domain. However, although in both domains we have based our detectors on the use of rabin fingerprints, the problem of worm vs. application signature generation differ in many ways.

As application signatures are not of a pre-determined size we use separate fingerprints for each substring length between a minimum and a maximum. For each incoming and outgoing byte we therefore need to update several distinct rabin fingerprints. The added cost is not a major cause for concern, as the fingerprinting process is performed offline, but it is desirable to not inflate the cost too much. Fortunately, larger signatures can be composed from smaller ones in a post-processing phase, and therefore it is not absolutely necessary to include a large range of substring sizes during basic scanning. At this stage it is only important to pick the minimum size appropriately to avoid overloading the cache on one hand, while on the other hand making sure that good fingerprints make it through to the second phase for signature construction.

Rabin fingerprints are also convenient for supporting offset constraints and providing limited support for regular expressions. An offset-constrained fingerprint is a fingerprint that always occurs at the same offset within a packet or flow. This is expected to be common at least for some network protocols, and is therefore worth giving a try for fingerprinting an application. This allows for more focused signature

generation (e.g., a lower chance of missing the fingerprint during the search due to cache size constraints), operational efficiency (e.g., faster inline search on real traffic), and fewer false positives (e.g., a more well-defined fingerprint is less likely to misclassify traffic of other applications). If no offset-constrained fingerprint is found, then the search can be repeated without this constraint. To support offset constraints all that needs to be done is for the rabin fingerprint value to be supplemented by the offset as the most-significant byte (or byte-pair, for offsets greater than 255) or by otherwise incorporating the offset in the fingerprint value, for example through a XOR operation.

A subset of the regular expression space can also be supported. The basic idea is that we can easily mask out specific bytes from the rabin fingerprint by multiplying out the right factor. Our current implementation uses this idea to support expressions of the form `{A?????B}` where `{A}` and `{B}` are fixed and there is a specific number of "middle" bytes considered as variable. Other forms of regular expressions can also be supported; we will discuss this briefly along with second-phase fingerprint post-processing.

2.1.2 Signature selection heuristic

The heuristic for selecting fingerprints works as follows. If the substring is seen more than a specified number of times within a flow, and a more than a specified number of times across flows, then it is considered as a *candidate* fingerprint. The idea here is that there may be different forms of fingerprints: some applications may have specific "magic numbers" or protocol message identifiers in each packet; other applications may only have an identifying pattern once within each flow; other applications may use separate connections for control and data, or different connections for different types of data. We do not have any insights into whether one form or another is common, or whether one of the above forms is sufficient by itself. The tool should therefore be able to capture all these patterns. One way to do this is by running the tool with different settings. For efficiency purposes, we provide basic support for thresholding on packet and flow counts. Our experience suggests that requiring at least 30 instances of each fingerprint across at least 2 flows works well in most cases. That is, we rely on relatively high sensitivity at this level for selecting candidate signatures. This means, however, that this process will not be able to point by itself to a minimum set of signatures, or a single signature, which would be ideal. Some further most processing on the candidate signatures will be required. We will return to post-processing later in this section. An alternative to having a second-phase analysis would be to run the tool with different sensitivity parameters, decreasing sensitivity until we are left with the minimum number of good fingerprints.

2.1.3. Cross-trace fingerprinting

We also allow for the use of multiple, independent traces. The idea here is that some applications may have substrings that conform to the above pattern, e.g., appearing frequently enough within and across flows, but some of these substrings may be specific to the trace under consideration, for example, because the local IP address is somehow encoded in a protocol message in a way that makes it a pattern, or because the specific file being transferred between P2P clients is the same across the trace. The use of independent traces is expected to filter out such patterns, as they are not invariant across traces. The additional constraint imposed for this in terms of selecting candidate signatures is that each potential fingerprint needs to appear not just across packets or flows, but also across traces.

Application	Result
PPLive	OK
PPStream	OK
TVAnts	OK
TVKoo	OK
Emule	OK
BT Vampire	OK
BitSpirit	OK
Thunder	OK
Limewire	OK
Morpheus	OK
Feidian	OK
CCIPTV	OK
QQLive	OK
PPMate	NO 100% FILTERING
uTorrent	NO 100% FILTERING

Application	Result
Azureus	NO 100% FILTERING
GreedBT	NO 100% FILTERING
TurboBT	NO 100% FILTERING
Kugoo	NO SIGNATURES
Shareaza	NO SIGNATURES
Flashget	NO SIGNATURES
Joost	NO SIGNATURES
Bittorrent-encrypted	NO SIGNATURES
Emule-obfuscated	NO SIGNATURES
FlashBT	missing file
WinMX	account needed
Bittorrent Plus 2	account needed
BitComet	cannot connect to servers
BT Engine	payment needed

Figure 1: Evaluation of EAR fingerprinting algorithm on a variety of applications

2.1.4. Fingerprint cache management

Appropriate design of the fingerprint cache structure is of paramount importance. The tool will have to process large amounts of trace data, in the order of several GB, with each packet generating a number of candidate fingerprints equal to the number of bytes in the packet (minus network-layer headers and the substring length). Each fingerprint needs to be recorded in the cache structure, and to facilitate selection it is necessary to also store additional information such as the flows in which each substring was observed. As we look for patterns across traces, it is also important to record which traces a fingerprint has been identified in.

Our cache structure is designed to be adaptive. We assume that most substrings will not be useful, as they do not appear frequently enough. Thus, new entries should consume a minimum amount of space. Entries that are observed more than a specified number of times will then expand the cache element size to include further information on which flows it was encountered, and instead of statically allocating a certain number of slots for flow information for each fingerprint, We dynamically re-dimension the cache element for this purpose each time we hit the current limit. Eviction is triggered not only when the cache is full, but also when the cache utilization hits a certain level, as we rely on a relatively narrow hash-table and performance degrades as the hash-table becomes heavily populated. Eviction follows an least-recently-used policy, but we also employ *pinning* of "interesting" fingerprints -- those that have crossed a first set of thresholds, so that it is guaranteed that they are not accidentally evicted.

Despite being fine-tuned, the cache structure has its limitations, which affect how the tool should be used. The objective is to prevent the cache from getting so full that important fingerprints are somehow replaced and therefore not considered as candidate signatures. Our current experience suggests that it is best for the search to be constrained to the beginning of each flow, for example, the first 4KB. Fortunately, this is consistent with application identification requirements: if the signature user has the intention of using fingerprints to prioritize or drop traffic, then it is important that such action takes place early enough in the flow. On the other hand, users that only care about traffic characterization may not have this constraint, and our tool may occasionally fail to identify signatures that appear in later parts of application flows.

2.1.5. Post-processing

After complete scanning of a trace (or set of traces), our tool will have recorded a set of fingerprints of various sizes that have appeared across flows and traces. Due to book-keeping constraints the fingerprints stored in the cache are supplemented only by the number of instances, number of distinct flows, and the flow identifiers up to the point where the signature was put on the candidate signature pile (to avoid increasing memory usage). This is not sufficient by itself to select which among all signatures are sufficient to characterize an application. For example, a fingerprint may be a substring of another, and may seem to appear in the same set of flows. The longer string may be more desirable as it carries equal or less risk of triggering false positives. However, we do not have sufficient information at hand as to whether this fingerprint appeared at some later point in each of the recorded flows compared to the shorter fingerprint. Similarly, seemingly independent fingerprints may occur in the same set of flows, and we would like to remove such redundant signatures. Finally, some signatures may co-exist frequently enough to be considered as a regular expression of the form $\{A.*B\}$.

The post-processing phase involves going through the trace once more using a string matching algorithm to match each flow against all candidate signatures. Before going through the trace, we first look at the candidate signatures and try to identify potential larger strings from smaller fingerprints. For example, the first phase may have looked at strings of size 3 up to 10. If the application has a fingerprint of size 30, every 10-byte substring of it must be recorded as a candidate signature. After building this expanded set of signatures, we go through the trace again, and fully record matches for getting a better view of which signatures should be selected. We compute for each signature the number of flows matched, as well as the number of bytes matched (i.e., the size of the flow from the point of match onwards), while building a flow-signature matrix. We also construct classes of signatures that simultaneously match the traffic in the trace for redundancy checks or construction of regular expressions.

As a final step, we start with the signature that has the highest match performance in terms of volume, and mark the flows which are successfully classified by it. We then re-compute the match performance for each other signature on the remaining flows through the flow-signature matrix constructed previously, and continue selecting the highest matching of the remaining signatures until no signatures or no flows are left. In case of signatures that have equal match counts, we chose the longest one with the hope of reducing the risk of false positives.

2.1.6. Signature Validation

Validating the set of signatures we generated involves two separate questions. The first question is whether the signatures generated match not only the application in question but also traffic from other applications. The common term for such matches is *false positives*. A major concern in testing for false positives is the time it takes to complete signature validation. With this goal in mind we have designed and evaluated an efficient algorithm for signature validation. The approach was originally designed for testing worm signature generators, but has been imported with minor engineering changes for application characterization. In our approach, we incorporate time-space trade-off techniques that are well understood in the context of databases. These techniques allow users to quickly scan for the existence of a key in a database.

To be more specific, we expect from our algorithm a response time much lower than one second. If our algorithm does not use any pre-processing of the captured traffic then only the time required to read the captured traffic from the storage device would be much greater than one second. As a consequence, we have to pre-process the captured traffic in order to minimize the data that our algorithm must read from the storage devices (hard disks). To be more specific our algorithm has two phases, an "offline" phase where the captured traffic (trace) is processed and an "index" file is created, and an "online" phase where the algorithm uses the "index" file to validate the signature.

The second question is whether the signatures can characterize application flows, and if employed to block traffic, whether the application can still perform well despite filtering (e.g., through the use of another protocol, or protocol mode, which has not been fingerprinted). The first part of this second question -- whether the signature characterizes application flows, is already answered by the analysis during candidate signature post-processing. The second part of this question requires the user to manually fire up the application with the new signatures installed on a DPI box and determine whether the application still performs well even if the DPI box is instructed to block traffic with the newly-installed signatures.

2.1.7. Preliminary Evaluation

We have evaluated our tool by using it to fingerprint 24 applications. Those 24 applications were listed as unclassified for one commonly used DPI platform. The results are summarized in Figure 1. Out of a total of 30 applications that we tried, we managed to work on 24 (the other 6 didn't work at all or required some kind of account, etc.). For 13 out of 24 we were able to obtain and validate signatures. For 7 we got signatures that were not very accurate (e.g., they degraded the application but didn't fully block). For 4 we failed to obtain signatures for various reasons (obfuscation, encryption, ...).

[illegible]

Figure 2: Screenshot of UNVEIL algorithm in action, the top half shows the 10 first preambles encountered in the sample obtained from the AUTH trial site. The bottom half shows the output from the UNVEIL run. The last line of output shows a signature that matches 627 out of 652 samples, while the other proposed signatures have weaker coverage. It is easy for the operator to combine these signatures further.

There's nothing surprising about the results, but please keep in mind that they are pessimistic. we plan to investigate the 7+4 cases and we might be able to fine tune our signature generator to do better. And,

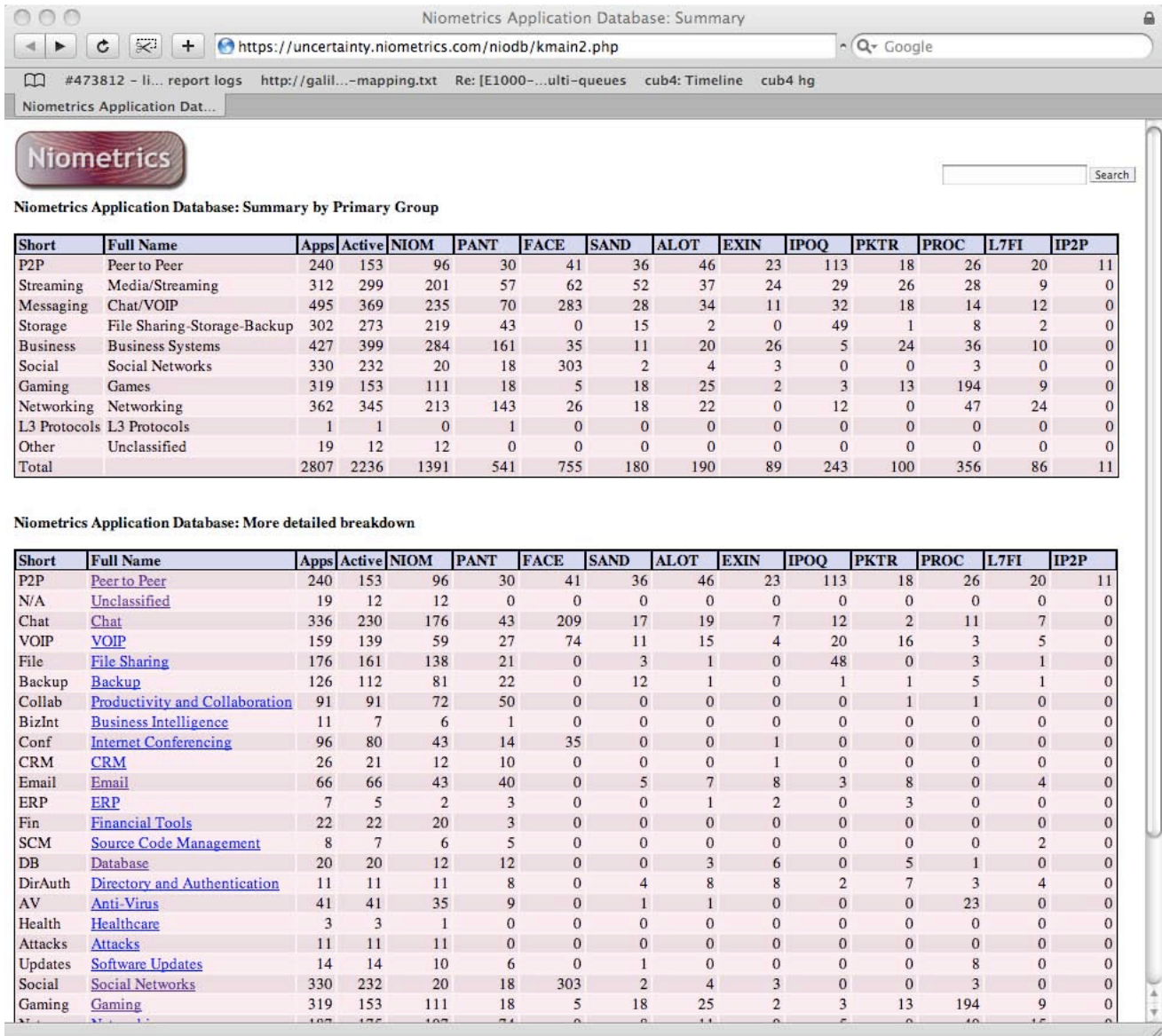


Figure 3: Screenshot of NioDB GUI main screen, showing the application groups and the companies along with the number of applications in each groups that these companies can detect.

of course, for obfuscation and encryption we are trying more advanced approaches, which are outside the scope of this proposal.

2.2 The UNVEIL algorithm

Perhaps the biggest deviation compared to the original technical plan is due to the observation that a fairly large number of protocols cannot be characterized by a reasonably large identifying string at a variable offset from the beginning of the packet, which is the focus of the EAR algorithm. In fact, a large fraction of protocols are binary-encoded with just a few fixed fields, as every byte is supposed to carry some meaningful quantity between the communicating peers. For example, the SOCKS protocol uses the first payload byte in the first packet as the magic number (0x04 for SOCKSv4 and 0x05 for

Dashboard for Application Group Backup

[Back to main dashboard]

Update Add Row Delete Marked

Delete	Active	Traces	Group	Type	Internal Name	Full Name	URL	NIOM	PANT	FACE	SAND	ALOT	EXIN	IPOG	PKTR	PROC	L7FI	IP2P	Comm
☐	☐	☐	Backup	I	clubbox	clubbox		☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	
☐	☐	☐	Backup	I	cooldisk	cooldisk		☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	
☐	☐	☐	Backup	I	dacom	dacom		☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	
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☐	☒	☐	Backup	I	BackJack	BackJack	http://www.backjack.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Iron Mountain	Iron Mountain	http://backup.ironmountain.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	iStorage-Iomega	iStorage-Iomega	http://www2.iomega.com/	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Xdrive-AOL Service	Xdrive-AOL Service	http://www.xdrive.com/	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	Carbonite	Carbonite	http://carbonite.com/	☒	☒	☐	☒	☐	☐	☐	☐	☐	☐	☐	
☐	☒	☐	Backup	I	SOS Online Backup	SOS Online Backup	http://www.sosonlineback.com/	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	partia
☐	☒	☐	Backup	I	Amazon S3	Amazon S3	http://www.amazon.com/	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Figure 4: Screenshot of NioDB GUI screen for a specific application group (backup software). We mark as yellow applications which we have not yet investigated. Green are applications that have been fingerprinted already. Red are applications for which we have collected data but for which we have yet to produce fingerprints.

SOCKSv5), the second byte encodes the requested function to be performed by the other side (for example, 0x01 for opening a connection).

These protocols require a different approach for detection. In our current design, we use “preamble masks” indicating fixed-size strings at the beginning of the payload, with the mask indicating which bytes in those strings are fixed and which ones are variable. For example the preamble mask ‘04013300/FFFF00FF’ matches all packets that start with 0401 and have the 4th byte equal to 0x00 and any value in the 3rd byte. Fortunately, the fact that preambles are matched against a fixed offset in the payload reduces complexity in the matching process, and also makes signature generation somewhat easier.

The goal of the UNVEIL algorithm which we have developed is to take as input a set of traffic samples and produce the minimum set of preambles that covers a large enough fraction of the samples, ideally 100%. The algorithm operates as follows. We consider preambles of a fixed maximum size, which in our current implementation is 16 bytes. We extract, from all flows, the first packet, we take the first 16 bytes with the full mask (FF .. FF), and consider this set of preambles as our initial set of signatures.

The goal becomes to reduce this set to the minimum necessary to fully characterize the application. In each step, we compute the similarity of each preamble to every other preamble in the set.

There can be many similarity measures. The simplest one would be to count the number of identical bits among each pair of preambles, and sum up all the values for each preamble. We use a somewhat more elaborate scheme to introduce some bias in the measurement to favor preambles that have consecutive identical bits. More specifically, we maintain three counters as we compare the preambles: the count of identical bits, the maximum number of contiguous identical bits, and the current sum of contiguous bits across different bytes. The similarity at the end of the comparison is the sum of these three counters.

Once the basic similarity measure has been computed for the set, we find the highest similarity signature in the set and then a second signature where the two signatures can be merged with minimum impact in terms of having to turn off bits in the mask. We could use other measures as well, such as the maximum number of signatures we can eliminate with this approach, but for now we prefer a more conservative strategy and just eliminate one signature at a time, even if this means that the algorithm is going to be slow.

Through several rounds of reductions, up to the number of samples in the initial set, we can derive one or more preamble masks that cover all samples in the initial set. This is the set of candidate signatures, which can often be more than one as preambles cluster around a maximum similarity preamble.

We note that even the first round of computations for similarity is very useful in identifying clusters in the case where the trace has been obtained from the network and may contain several different applications with different preambles. The algorithm is also designed in such a way that we do not require the algorithm to compute a single signature that matches all samples. The end condition is currently set to a maximum of 10,000 rounds of reductions and with some thresholds in each reduction, to avoid overgeneralizing the signatures. A side-effect of being careful in this is that the final proposed signatures may still have obvious generalizations between them, which the operator will then have to merge manually. Although this is far from the ideal of fully automated, unsupervised signature generation, it is still much more efficient than manual eyeballing through large amounts of data, as it reduces the data to a form that can be understood by the operator for the production of signatures within minutes.

2.3 Fingerprinting Web-based applications

Another issue we discovered during the course of this project is that an increasing number of applications operate over HTTP and HTTPS. Their traffic would usually be classified as HTTP, and it would not show up as a new blob in our unclassified dumps. We needed ways to identify this kind of traffic, whenever possible, and to have ways to fingerprint it.

There are two primary features that allow such applications to be identified. First, many of them are served in a centralized fashion, meaning that all the traffic would go to specific servers, whose names could be described in signature language. This would typically involve a signature on the Host: or Referer: field.

The second key feature is the User Agent field of the HTTP request. A large fraction of Web based applications use distinct User Agent fields which are very easy to express as signatures. To automate

the extraction of previously unknown User Agent fields we have implemented a specific signature “action” that checks every occurrence of a User Agent field against an updated list of known User Agents. If a new one shows up, it is logged for further analysis. Google and whois can then help identify exactly which application this User Agent corresponds to, if the User Agent string itself is not clear about it.

2.4 Application Traffic and Signature Database and GUI

During the course of this project we noticed that quite often we are able to identify signatures from live traffic but without being able to identify which application they cover. In many cases it is sufficient to give them a temporary label until the application’s name is discovered, but this also means that offline data collection cannot be completely eliminated from the signature update process. Combining the two is likely to be more effective, as quite often the temporarily labeled applications will eventually coincide with applications fingerprinted in the lab. Due to the limited number of trial sites and live network data that was available during the course of the project, we put significant effort into collecting traffic samples in the lab, and streamlining the infrastructure needed for this task.

We have developed an extensive database of traffic samples for more than 2000 applications. The names of the applications were obtained through competitors’ application lists, online sites providing information on popular networking software (product review sites such as wakoopa.com, and download.com for example) and information obtained from users and IT managers. The same database also provides us with a comparison of our application coverage compared to competing vendors in the market.

2.5 Data Collection Tools

In addition to the database, we have also ported the CUB4 engine to the Windows XP and Vista platforms, to provide more flexibility and accuracy in data collection compared to simply running windump or wireshark and collecting full traces. A CUB4 wrapper implementing null detection and activating the dumper allows us to capture capped traces that contain sufficient data for analysis at a fraction of the storage needs. At the same time, we have also implemented “FlowProbe”, a module that can tag flows with application data obtained from the operating system. This is necessary as in many cases using a small number of IP addresses for data collection results in significant noise, as stale data in the network, background applications, and random network probes can contaminate the data.

The “FlowProbe” module has an additional feature which is likely to be highly useful in more operational settings. It can broadcast special “hint” packets to the network containing the association of flows to applications. An embedded Niometrics/CUB4 system in the network can intercept these hints and use them to determine if its own classification for each flow is consistent with the “ground truth” as provided by the host operating system. We envision that administrators may ask users with high volumes of unclassified traffic to (temporarily) install FlowProbe so that the Niometrics system can tune itself and learn the previously unknown signature and application.

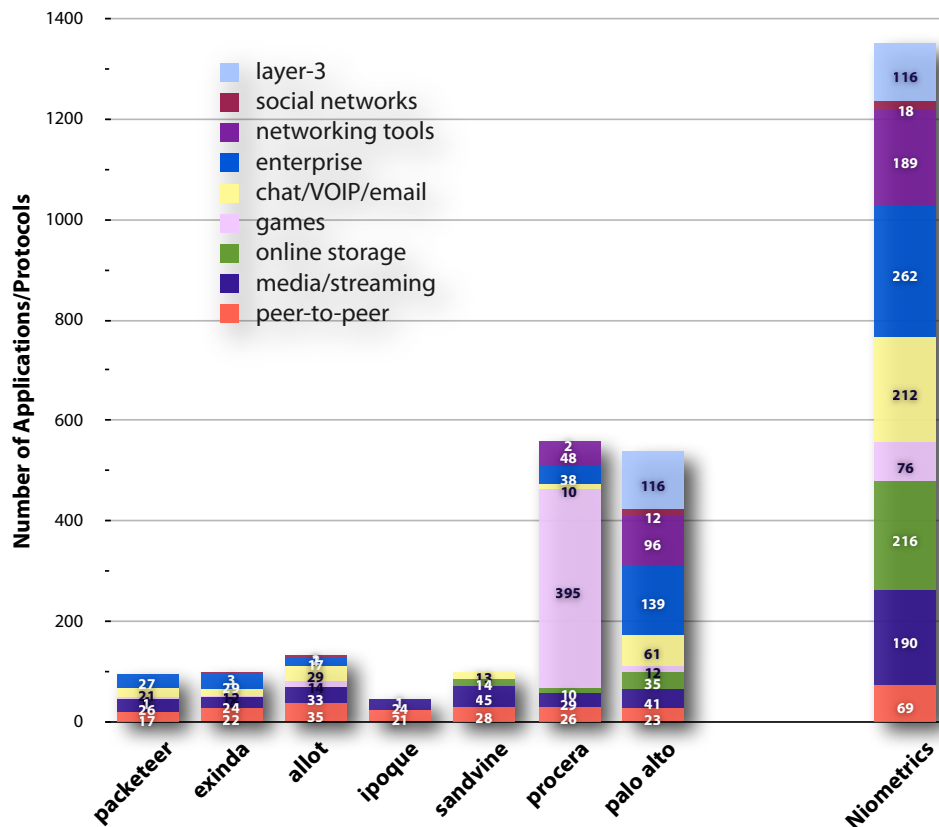


Figure 5: Comparison of application coverage between different vendors, including our own project. The resulting coverage is due to the use of our tools on reference traces and a small number of live networks and trial sites.

4. Insights from trial sites

Up and until November 2008 the project relied almost exclusively on access to I2R's corporate network, and the reference traces collected by our project team. From November 2008 we obtained access to data and trial sites at AUTH (EU), Vivodi Telecom (EU), and an undisclosed university campus (US). The addition of each trial site provided useful insights:

- The data obtained from Vivodi were traces from two datacenters, where the traffic was primarily enterprise applications, LDAP, billing, and backup software. The initial classification rate on this network was relatively low, at around 60%, as several LDAP modes and the backup applications were not included in our database. It took only 1-2 days of analysis to fully cover the applications. Some collaboration was necessary with the network administrators at Vivodi to determine which application was associated with a given set of signatures. Subsequent runs demonstrated classification rates of 99.9%.
- The data obtained from the university campus provided a wealth of new applications, as this is an open network of more than 30,000 staff and students. It took a full week to sift through the data, and we produced new signatures for around 150 applications for which we didn't have any reference data before.
- The AUTH trial site went live on December 18th, 2008. From the early runs we achieved classification rates of more than 98% without any additional signature generation work. Part of the remaining 2% resulted in around 20 new applications being discovered, most of which were related

to Grid Computing, and some which related to botnet activity and SOCKS proxy modes which we had not seen before.

5. Caveats and Next Steps

Compared to the ideal of fully automated, unsupervised signature generation, our approach in its current form has some inherent limitations:

- We have observed that sometimes the fingerprints produced by the algorithms are not particularly good. In many cases there are obvious ways to improve them, for example, by further manual reduction. This is not a difficult task, but it means that some supervision is still necessary. Further work is necessary to determine whether it is possible to fine-tune our framework to reduce the need of supervision to a minimum, and to provide more meaningful information to the operator when supervision is unavoidable.
- In some cases the application has a very weak protocol footprint to begin with, and there are no good signatures to discover by any algorithm. This is not just about obfuscated applications -- many other applications that do have a protocol structure don't have a clear enough invariant part that would allow for accurate identification. The operator will have to look for secondary features, such as packet sizes, port numbers, or preambles further down in the packet. In some extreme cases, such as Skype the footprint is so weak that it requires case-specific stateful handling. In other cases, there are known quantities that are embedded in the payload which are variable. For example, some applications encode the message size, which can be easily correlated with the packet size, and other applications encode the source IP, destination IP or transport-level port numbers at specific fields. While it is certainly possible to generalize feature extraction for such cases, it appears that every "difficult" application may still require some degree of unique handling, which the underlying system needs to support.
- Within the scope of an isolated traffic sample, some parts of the payload may seem invariant, when in reality they may change under certain conditions. For example, assume that an application embeds a timestamp in the payload. If some part of this timestamp indicates the year, then it will not be possible to identify the variable portion until a year later. One could then either declare this part to be variable (and mask it out, in the case of preamble signatures) or one could consider that the signature will be changing every year and that this part should be considered invariant for that period of time. It may be possible to adapt the algorithms to detect similarity between unclassified traffic and existing traffic samples, or the existing signatures in the database. An implementation of this would require an appropriate multi-pattern approximate matching algorithm. Given that this will operate mostly offline, there are no stringent performance requirements for this part. This approach cannot be bulletproof, but may in most cases provide a reasonably good guess. Another strategy, which is something that we have been doing manually, is to look at the profile of the flow endpoints. For the internal hosts, we can look back at the applications that we have already identified as running on the host. With some further correlation with other hosts generating similar unclassified traffic, it may be possible to make a better guess as to whether the unclassified traffic belongs to an application we have already identified as running on the host, or whether we should look further for evidence.
- Automating the identification of application name and type is an open issue. Our experience with manual identification suggests that this is difficult without additional access to the end systems, as provided by FlowProbe. In an enterprise setting, this seems reasonable, but in an ISP setting this approach may be too intrusive. Cross-site collaboration may provide some help, but this too seems like a long shot for ISPs.
- The Flash RTMP protocol is a challenge by itself, as it involve a lot of random data at the beginning of the payload, and no clearly identifiable strings until very deep in the payload. As many

applications are nowadays implemented in Flash, it would be important to explore this further. Our current approach here is still somewhat manual.

- Finally, it seems desirable to automate the fingerprinting of non-content features as well. Skype's TCP connections, for example, have a similar feature set to other obfuscated applications, and it looks like there is an opportunity there to automate the extraction of the feature ranges, similar to how we went about extracting the content features.

References

- [1] Periklis Akritidis, Kostas Anagnostakis, and Evangelos P. Markatos. Efficient content-based fingerprinting of zero-day worms. In Proceedings of the IEEE International Conference on Communications, May 2005.
- [2] [Michael O. Rabin \(1981\) \(PDF\)](#). *Fingerprinting by Random Polynomials*. Center for Research in Computing Technology, Harvard University. Tech Report TR-CSE-03-01. Retrieved on 2007-03-22.

Appendix A: List of reference traces

There are 1860 traces in our reference archive. Other traces are also available but are not well organized at the moment and therefore are not “officially” part of this archive.

```
6422199 Nov 21 17:27 01-mp3search4.0-p2p-install-201108-lavany.pcap
254894 Oct 22 11:10 123flashchat-chat1-221008-lavany.pcap
85637 Oct 22 11:11 123flashchat-chat2-221008-lavany.pcap
1085134 Oct 24 16:26 12voip-voip-241008-lavany.pcap
1305123 Oct 24 16:25 12voip-voip-install-praveen241008.pcap
4694924 Aug 28 17:14 24sevenoffice-crm-praveen.280808.pcap
4828529 Nov 7 17:13 2big2send-filessharing-install-praveen.071108.pcap
6118397 Nov 7 17:06 2big2send-filessharing-webbased-praveen.071108.pcap
11232311 Oct 25 12:49 3cxvoipclient-voip-install1-praveen.251008.pcap
6838734 Oct 25 12:39 3cxvoipclient-voip-install-praveen.251008.pcap
4193838 Dec 2 11:10 3lux-socialnetworks-web-021208-lavany.pcap
3627714 Dec 2 11:30 43things-socialnetworks-web-021208-lavany.pcap
12117098 Aug 11 23:10 4shared-filessharing-install1-praveen.110808.pcap
4826014 Aug 11 23:07 4shared-filessharing-install-praveen.110808.pcap
17786801 Jul 21 14:40 56-chinese-praveen.210708.pcap
611296 Nov 17 17:11 8hands-chat2-install-111108-lavany.pcap
3178743 Dec 2 13:31 8hands-socialnetworks-install-021208-lavany.pcap
4248160 Dec 2 13:04 9rules-socialnetworks-web-021208-lavany.pcap
1719296 Aug 16 19:20 a3-gaming-lavany.160908
40448875 Dec 12 15:32 accessremotepc-networking-remotedesktop-install1-praveen.121208.pcap
43469306 Dec 12 15:31 accessremotepc-networking-remotedesktop-install-praveen.121208.pcap
246720 Oct 22 16:50 achat-chat1-221008-lavany.pcap
91213 Oct 22 16:50 achat-chat2-221008-lavany.pcap
84980 Nov 17 17:11 achat-chat-install-121108-lavany.pcap
5549476 Oct 15 15:29 activeworlds-chat1-151008-lavany.pcap
14770527 Oct 15 15:15 activeworlds-chat2-151008-lavany.pcap
4566498 Nov 21 17:27 addax-p2p-install-201108-lavany.pcap
46654 Oct 15 15:38 adiiirc-chat1-151008-lavany.pcap
188672 Oct 15 16:06 adiiirc-chat2-151008-lavany.pcap
16097 Oct 15 15:39 adiiirc-chat3-151008-lavany.pcap
152323 Oct 15 16:07 adiiirc-chat4-151008-lavany.pcap
49911390 Sep 19 15:30 adobeconnectnow-collaboration-beta-praveen.100908.pcap
13156251 Aug 11 10:35 adobeconnect-pro-collaboration1-praveen.110808.pcap
5132477 Aug 11 10:18 adobeconnect-pro-collaboration-praveen.110808.pcap
53657822 Aug 12 12:07 adobereader-professional-update-praveen120808.pcap
555474 Aug 10 17:14 adobe-reader-update-praveen.100908.pcap
10184426 Nov 6 13:30 adobeshare-filessharing-webbased-praveen.061108.pcap
13446152 Oct 8 11:10 adrive-onlinebackup-praveen.081008.pcap
1639311 Dec 2 13:43 advisorgarage-socialnetworks1-web-021208-lavany.pcap
1775135 Dec 2 13:57 advisorgarage-socialnetworks2-web-021208-lavany.pcap
565201 Dec 2 14:02 advogatosocialnetworks-web-021208-lavany.pcap
582359 Oct 17 20:10 afterbeep-streaming-install1-praveen.171008.pcap
935227 Oct 17 20:15 afterbeep-streaming-install2-praveen.171008
1303662 Oct 17 20:20 afterbeep-streaming-install3-praveen.171008.pcap
1431980 Oct 17 20:01 afterbeep-streaming-install-praveen.171008.pcap
1573307 Oct 17 19:55 afterbeep-streaming-praveen.171008.pcap
40906 Oct 24 16:29 agephone-voip1-241008-lavany.pcap
191028 Oct 24 16:29 agephone-voip2-241008-lavany.pcap
352890 Oct 24 16:41 agephone-voip-install1-praveen.241008.pcap
358786 Oct 24 16:38 agephone-voip-install-praveen.241008.pcap
2448465 Sep 18 11:24 aimmall-businesssystems-email-lavany.180908
58743 Nov 10 15:19 akenipromessenger-chat-install-071108-lavany.pcap
108971 Nov 10 15:19 akeniproserver-chat-061108-lavany.pcap
1095728 Nov 10 15:19 akeniwebchat-chat2-install-071108-lavany.pcap
36063 Nov 10 15:19 akeniwebchat-chat3-install-071108-lavany.pcap
26548 Nov 10 15:19 akeniwebchat-chat-install-071108-lavany.pcap
24553948 Aug 27 16:29 albatross18-gaming-lavany-270808
11694956 Sep 18 17:37 allmydata-onlinebackup-install-praveen.180908.pcap
846908 Oct 15 16:47 altme-chat1-151008-lavany.pcap
523208 Oct 15 16:43 altme-chat2-151008-lavany.pcap
156711 Oct 15 16:49 altme-chat3-151008-lavany.pcap
1251483 Dec 2 14:23 alumiwire-socialnetworks-web-021208-lavany.pcap
1965123 Dec 2 14:44 americasbookshelf-socialnetworks-web-021208-lavany.pcap
4059810 Dec 2 15:06 amitize-socialnetworks-web-021208-lavany.pcap
6816524 Dec 5 13:05 ammy-networking-remotedesktop-install1-praveen.051208.pcap
6805170 Dec 5 13:04 ammy-networking-remotedesktop-install-praveen.051208.pcap
3211051 Sep 29 14:50 amsn-chat-install-praveen.290908.pcap
1954714 Sep 11 11:40 anarchyonline-gaming1-lavany.110908
8833782 Sep 18 16:42 angelbackup-onlinebackup-install-praveen.180908.pcap
2215863 Aug 26 17:33 angelsonline-gaming-lavany-260808
2292076 Dec 2 15:38 anobii-socialnetworks-web-021208-lavany.pcap
85060 Nov 27 17:33 anubis-p2p-install-271108-lavany.pcap
908563 Oct 30 16:15 anyplacecontrol-networking-remotedesktop-install1-praveen.301008.pcap
154697 Oct 30 15:17 anyplacecontrol-networking-remotedesktop-install-praveen.301008.pcap
7772347 Sep 17 16:11 aolmessageboard-businesssystems1-productivity-lavany170908
1393683 Sep 17 16:32 aolmessageboard-businesssystems2-productivity-lavany170908
146211 Sep 17 16:33 aolmessageboard-businesssystems3-productivity-lavany170908
31747961 Aug 10 15:16 apple-softwareupdate-praveen.100808.pcap
2315320 Aug 15 09:54 apple-softwareupdate-praveen.150808.pcap
10765186 Nov 10 11:37 arkiva-filessharing-webbased-activex1-praveen.101108.pcap
11129328 Nov 10 11:31 arkiva-filessharing-webbased-activex-praveen.101108.pcap
4987484 Dec 2 15:48 artbreak-socialnetworks-web-021208-lavany.pcap
168636 Aug 11 11:41 asheronsall2-game-lavany080808.dmp
49231308 Aug 11 11:41 asheronsall2-game-lavany080808.dmp
2580109 Dec 2 16:05 asustalking-socialnetworks-web-021208-lavany.pcap
18264744 Sep 3 10:45 atlanticrecords-radio-media-praveen.030908.pcap
7767095 Sep 3 10:50 atlanticrecords-TV-media-praveen.030908.pcap
29340983 Nov 12 14:48 atom-streaming-webased-praveen.121108.pcap
13632484 Nov 27 18:51 audionome-p2p-install-271108-lavany.pcap
3182147 Dec 2 17:10 avatarsocialnetworks-web-021208-lavany.pcap
3582514 Dec 2 16:15 axmate-socialnetworks-web-021208-lavany.pcap
843567826 Oct 6 12:25 azureus-3.1.1-torrent-kirk.061008.pcap
12392905590 Sep 29 11:45 azureus-3.1.1-torrent-kirk.290908.pcap
6558832 Dec 2 16:34 b4class-socialnetworks-web-021208-lavany.pcap
11810935 Aug 5 15:09 backblaze-onlinebackup1-praveen.pcap
14676482 Aug 5 15:17 backblaze-onlinebackup2-praveen.pcap
14837106 Aug 5 15:01 backblaze-onlinebackup-praveen.050808.pcap
1781364 Sep 16 10:35 backupkit-procollab-praveen.160908.pcap
2633722 Nov 6 13:55 backup2email-onlinebackup-install1-praveen.061108.pcap
383815 Nov 6 13:52 backup2email-onlinebackup-install-praveen.061108.pcap
13626248 Nov 7 13:11 backupandshare-onlinebackup-install-praveen.071108.pcap
67291000 Aug 6 13:27 backuphelp-onlinebackup1-praveen.060808.pcap
41374694 Aug 6 13:20 backuphelp-onlinebackup-praveen.060808.pcap
6566557 Aug 5 11:13 backup-symantec-onlinebackup1-praveen.050808.pcap
28976172 Aug 5 11:27 backup-symantec-onlinebackup2-praveen.050808.pcap
70705869 Aug 5 11:05 backup-symantec-onlinebackup-praveen.050808.pcap
514521 Nov 28 09:51 badblue-p2p-install-281108-lavany.pcap
5150802 Dec 2 17:27 badoo-socialnetworks-web-021208-lavany.pcap
5230900 Sep 12 10:36 badongo-filessharing-install-praveen.120908.pcap
34368657 Sep 12 08:27 badongo-filessharing-praveen.120908.pcap
2463342 Dec 2 17:37 bahu-socialnetworks-web-021208-lavany.pcap
820833 Dec 2 17:47 bandchemistry-socialnetworks2-web-021208-lavany.pcap
4492493 Sep 17 12:05 barronsfinanceblogs-businesssystems-productivity-lavany.170908
920476 Sep 1 16:12 bbca-p2p-collab-praveen.010908.pcap
5064012 Sep 2 09:11 bbc-iplayer-radio-media-praveen.020908.pcap
16474406 Nov 10 17:24 bccitv-streaming-webbased-praveen.101108.pcap
60621273 Nov 20 14:00 beanyourscreen-internetconferencing-install1-praveen.201108.pcap
5325541 Nov 20 13:59 beanyourscreen-internetconferencing-install-praveen.201108.pcap
14173238 Nov 21 17:27 bearshare-p2p-install-201108-lavany.pcap
7913262 Aug 3 13:09 bearshare-p2p-praveen.030808.pcap
8417937 Aug 3 13:01 bearshare-praveen.030808.pcap
1177798 Sep 1 21:11 bebo-socialnetworking-praveen.010908.pcap
550020 Oct 8 16:13 beinsync-onlinebackup-install1-praveen.081008.pcap
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31798265 Oct 8 16:05 beinsync-onlinebackup-install-praveen.081008.pcap
57824 Nov 17 17:11 bersirc-chat1-install-111008-lavany.pcap
19270 Nov 17 17:11 bersirc-chat2-install-111008-lavany.pcap
13331432 Sep 17 11:45 bigfilebox-filessharing-praveen.170908.pcap
1569671 Oct 22 10:44 bigfilehost-filessharing-webbased-praveen.221008.pcap
840969 Sep 17 09:20 bigfilez-filessharing1-praveen.170908.pcap
4351886 Sep 17 09:18 bigfilez-filessharing-praveen.170908.pcap
4901997 Sep 17 09:44 bigupload-filessharing-praveen.170908.pcap
13174494 Nov 10 15:48 bingodisk-onlinebackup-webbased-webdav-praveen.101108.pcap
89648903 Nov 27 18:53 bitche-p2p-install1-271008-lavany.pcap
6515035 Sep 12 10:42 bitroad.net-filessharing-praveen.120908.pcap
107034 Jul 31 20:57 bitwise-chat1-praveen.310708.pcap
963078 Jul 31 20:43 bitwise-chat-praveen.310708.pcap
147505073 Nov 28 10:57 bitzip-p2p-install-281108-lavany.pcap
47534562 Oct 2 10:12 blackboard-businesssystems-internetconference-lavany.021008
11436090 Oct 15 17:28 blinkx-streaming-install-praveen.151008.pcap
13320650 Jul 18 14:34 bliptv-praveen.180708.pcap
2802490 Dec 2 18:05 blogflux-socialnetworks2-web-021208-lavany.pcap
2826094 Sep 17 15:53 blogger-businesssystems-productivity-lavany170908
4037748 Dec 3 10:09 bloglines-socialnetworks-web-031208-lavany.pcap
33668269 Aug 12 16:16 Boinc2-P2P-lavany120808
19910417 Aug 12 13:04 Boinc-P2P-lavany120808
51888 Aug 11 11:41 Bomberclone1-game-lavany080808
13297 Aug 11 11:41 Bomberclone2-game-lavany080808
3083724 Oct 30 18:35 bomgar-networking-remotaccess-install1-praveen.301008.pcap
922501 Oct 30 09:41 bomgar-networking-remotaccess-install-praveen.301008.pcap
2681715 Dec 3 18:33 bonnect-socialnetworks-web-031208-lavany.pcap
2821535 Dec 3 10:57 bookcrossing-socialnetworks-web-031208-lavany.pcap
2310707 Dec 3 11:35 bookhopper-socialnetworks-web-031208-lavany.pcap
1052467 Dec 3 13:40 booksalesout-socialnetworks-web-031208-lavany.pcap
5062349 Dec 3 14:07 booksconnect-socialnetworks-web-031208-lavany.pcap
3083064 Sep 18 09:49 boom3-filessharing-praveen.180908.pcap
658294 Oct 28 14:18 bopup-chat-install1-praveen.281008.pcap
1133376 Oct 28 14:29 bopup-chat-install2-praveen.281008.pcap
209701 Oct 28 14:05 bopup-chat-install-praveen.281008.pcap
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14504790 Nov 21 16:32 vidlivic-internetconferencing-install-praveen.211108.pcap
8793492 Dec 3 10:04 vidsoft-internetconferencing-install1-praveen.031208.pcap
8402506 Dec 3 10:03 vidsoft-internetconferencing-install-praveen.031208.pcap
24536160 Oct 29 14:10 vipbackup-onlinebackup-install-praveen.291008.pcap
16827572 Aug 19 08:58 virgin-radio-live-praveen.190808.pcap
94792 Oct 30 13:21 virtumessenger-chat-install-praveen.301008.pcap
32018813 Dec 9 10:53 vmetv-streaming-webbased-praveen.091208.pcap
3685192 Oct 25 11:30 voipbuster-voip-install1-praveen.251008.pcap
2983974 Oct 25 11:30 voipbuster-voip-install-praveen.251008.pcap
14522094 Oct 24 10:12 voippcphone-voip-install-praveen.241008.pcap
1646644 Oct 24 11:27 voipstunt-voip-install1-praveen.241008.pcap
2872319 Oct 24 11:21 voipstunt-voip-install-praveen.241008.pcap
180053 Oct 24 11:37 voipwise-voip1-241008-lavany.pcap
651302 Oct 24 11:42 voipwise-voip2-241008-lavany.pcap
4809498 Oct 24 11:51 voipwise-voip-install-praveen.241008.pcap
479282 Aug 11 11:41 Voodoochat1-lavany080808
13356716 Aug 8 10:39 voodoo-chat1-praveen.080808.pcap
454062 Aug 11 11:41 Voodoochat2-lavany080808
2576005 Aug 9 10:20 voodoo-chat-praveen.080808.pcap
63388096 Dec 2 10:23 voontube-p2p-install-021208-lavany.pcap
40708581 Oct 21 10:39 voontube-p2p-install1-praveen.211008.pcap
28245902 Oct 21 10:26 voontube-p2p-install-praveen.211008.pcap
4351509 Nov 13 10:16 voxox-chat-install1-praveen.131108.pcap
6081551 Nov 13 08:42 voxox-chat-install2-praveen.131108.pcap
11908051 Nov 13 10:42 voxox-chat-install3-praveen.131108.pcap
4160021 Nov 13 10:15 voxox-chat-install-praveen.131108.pcap
1382289 Sep 30 11:20 voxwire-businesssystems2-internetconference-lavany.300908
2704872 Sep 30 11:20 voxwire-businesssystems-internetconference-lavany.300908
2562551 Nov 21 17:28 vphonet-voip1-install-181108-lavany.pcap
2409018 Nov 21 17:28 vphonet-voip2-install-181108-lavany.pcap
2277553 Aug 11 19:17 vsee-videochat-praveen.110808.pcap
1107744 Aug 7 14:07 vtiger-crm-install1-praveen.070808.pcap
1556197 Aug 7 13:46 vtiger-crm-install-praveen.070808.pcap
44565652 Aug 2 14:01 vuze-azureus1-praveen.020808.pcap
71699848 Aug 2 14:28 vuze-azureus2-praveen.020808.pcap
40985459 Aug 2 14:56 vuze-azureus3-praveen.020808.pcap
172827442 Aug 2 13:35 vuze-azureus-praveen.020808.pcap
29190835 Aug 16 16:54 vyew-collaboration-webbased-praveen.160808.pcap
1196131 Nov 21 17:28 vyke-voip-install-181108-lavany.pcap
2084856 Oct 29 17:40 vypresschat-chat-install1-praveen.291008.pcap
4965918 Oct 29 17:36 vypresschat-chat-install-praveen.291008.pcap
1215006 Oct 29 17:35 vypressmessenger-chat-install-praveen.291008.pcap
978069 Oct 23 09:35 vzochat-chat1-231008-lavany.pcap
1026605 Oct 23 09:35 vzochat-chat2-231008-lavany.pcap
385878 Aug 11 10:26 wallcooler1-networking-lavany110808
1325937 Aug 11 10:25 wallcooler2-networking-lavany110808
2179102 Aug 11 10:45 wallcooler3-networking-lavany110808
307268 Aug 11 10:46 wallcooler4-networking-lavany110808
1612226 Aug 11 13:24 wallcooler5-networking-lavany110808
703554444 Jul 17 15:16 wambo-swapper-1.0.6-kirk-170708.pcap
12075921 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-1.pcap
14922863 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-2.pcap
209247015 Jul 17 16:34 wambo-swapper-1.0.6-praveen-170708-3.pcap
3124423 Jul 31 13:06 warez-3.1.1-kirk.310708-1.pcap
402380684 Jul 31 14:03 warez-3.1.1-kirk.310708-2.pcap
1420126 Sep 15 15:12 warpfire-gaming-lavany.150908
11934132 Nov 12 10:27 watchindiatv-streaming-webbased1-praveen.121108.pcap
23620888 Nov 12 10:21 watchindiatv-streaming-webbased-praveen.121108.pcap
3157237 Nov 13 09:34 watercooler-socialnetworking-apps-bebo-webbased-praveen.131108.pcap
5203202 Jul 18 14:35 wayn-praveen.180708.pcap
9053783 Nov 7 12:43 webafile-onlinebackup-install-praveen.071108.pcap
263566 Oct 22 10:55 webasyst-prodcolab-webbased1-praveen.221008.pcap
4677550 Oct 22 11:01 webasyst-prodcolab-webbased-praveen.221008.pcap
6035202 Sep 17 14:05 webcargo-filessharing-praveen.170908.pcap
27910806 Aug 11 17:42 webex-collaboration1-install-praveen.110808.pcap
29510909 Aug 11 17:55 webex-collaboration2-install-praveen.110808.pcap
303347 Aug 11 17:32 webex-collaboration-install-praveen.110808.pcap
2546702 Aug 8 16:41 webhard-onlinebackup1-korean-praveen.080808.pcap
9270657 Aug 8 17:23 webhard-onlinebackup2-korean-praveen.080808.pcap
24379132 Aug 8 16:36 webhard-onlinebackup-korean-praveen.080808.pcap
80706985 Aug 8 16:57 webhard-onlinebackup-web-korean-praveen.080808.pcap
0574130 Sep 4 11:25 webhuddle-gpl-collaboration1-praveen.040908.pcap
929223 Oct 24 17:15 weblin-chat-install1-praveen.241008.pcap
4572033 Oct 24 17:11 weblin-chat-install-praveen.241008.pcap
1600289 Aug 22 11:44 weboffice-prodcolab-praveen.220808.pcap
1327720 Oct 24 14:32 webphonedialer-voip1-241008-lavany.pcap
2042479 Oct 24 14:34 webphonedialer-voip2-241008-lavany.pcap
732941 Oct 24 14:34 webphonedialer-voip3-241008-lavany.pcap
11466050 Nov 6 14:58 webroot-onlinebackup-install-praveen.061008.pcap
1146550 Aug 8 10:28 webshots1-socialnetw-lavany070808
10193212 Aug 8 10:28 webshots2-socialnetw-lavany070808
1425081 Aug 8 10:28 webshots3-socialnetw-lavany070808
051089 Sep 4 17:15 webtrain-collaboration-praveen.040908.pcap
2970077 Dec 12 17:03 weezo-networking-remotedesktop-install1-praveen.121208.pcap
3225438 Dec 12 17:02 weezo-networking-remotedesktop-install-praveen.121208.pcap
4105552 Sep 3 16:43 wetpaint-prodcolab-praveen.030908.pcap
13099175 Sep 12 15:34 wiiupload.net-filessharing-praveen.120908.pcap
1001551 Sep 3 13:12 wikidot-prodcolab-praveen.030908.pcap
3080378 Nov 14 09:30 wikisend-filessharing-webbased-praveen.141108.pcap
5441507 Sep 17 15:13 wikispaces-businesssystems-productivity-lavany170908
3375678 Nov 3 16:50 wincryptochat-chat1-install-311008-lavany.pcap
3393306 Nov 3 16:50 wincryptochat-chat2-install-311008-lavany.pcap

7946856 Oct 30 12:38 windowscommunicator-chat-install1-praveen.301008.pcap
1435317 Oct 30 12:07 windowscommunicator-chat-install-praveen.301008.pcap
2994085 Aug 13 16:39 windowssliveskydrive-lavany130808
21726087 Aug 13 14:35 windowsskydrive-spaces-filesharing-praveen130808.pcap
251804501 Aug 8 11:08 windowsupate-vista-praveen.080808.pcap
624791 Oct 30 11:35 winmessenger-chat-install-praveen.301008.pcap
81127 Oct 16 15:09 wipeer-chat1-161008-lavany.pcap
55831 Oct 16 18:28 wipeer-chat2-161008-lavany.pcap
12425696 Nov 6 11:16 wixi-filesharing-webbased-praveen.061108.pcap
10832278 Nov 28 15:28 wiziq-internetconferencing-webbased1-praveen.281108.pcap
9362633 Nov 28 15:28 wiziq-internetconferencing-webbased-praveen.281108.pcap
47844021 Nov 6 16:40 wizzdrive-onlinebackup-install-praveen.061108.pcap
79538 Nov 3 16:50 wmsmessenger-chat2-301008-lavany.pcap
163303296 Aug 25 17:59 wolfeinstein.v2.55-gaming-lavany-250808
3169693 Sep 17 13:59 woofiles-filesharing-praveen.170908.pcap
7275788 Nov 11 13:17 wowtv-streaming-webbased-install-praveen.111108.pcap
40838518 Nov 11 13:03 wowtv-streaming-webbased-praveen.111108.pcap
5257375 Aug 29 14:48 wrke-prodcollab-praveen.290808.pcap
41638708 Aug 14 09:08 wuala-onlinestorage1-praveen.140808.pcap
27989319 Aug 14 09:38 wuala-onlinestorage2-praveen.140808.pcap
244511419 Aug 14 15:55 wuala-onlinestorage3-praveen.140808.pcap
34134057 Aug 14 08:41 wuala-onlinestorage-praveen.140808.pcap
22852295 Nov 12 14:49 wuapi-streaming-webbased-praveen.121108.pcap
973128 Oct 15 15:10 wivtv-streaming-webbased-praveen.151008.pcap
11146779 Nov 27 11:04 wwffilesharepro-p2p-install1-271108-lavany.pcap
11075519 Nov 27 11:05 wwffilesharepro-p2p-install2-271108-lavany.pcap
1533672 Sep 9 16:51 wyvern-gaming-lavany.090908
6009703 Aug 15 10:51 xblaster-gaming-lavany-150808
135371 Sep 29 14:59 xchat-chat-install-praveen.290908.pcap
19184 Aug 11 11:41 xmcpr-lavany080808
12422914 Aug 6 09:42 xdrive-desktoplite-onlinebackup1-praveen.060808.pcap
10665188 Aug 6 09:49 xdrive-desktoplite-onlinebackup2-praveen.060808.pcap
20114504 Aug 6 09:28 xdrive-desktoplite-onlinebackup-praveen.060808.pcap
39401707 Aug 6 10:50 xdrive-fullclient-onlinebackup1-praveen.060808.pcap
40434432 Aug 6 10:33 xdrive-fullclient-onlinebackup-praveen.060808.pcap
370957 Jul 28 22:07 xfire-filetransfer-praveen.280708.pcap
520802 Jul 28 22:10 xfire-praveen.280708.pcap
56022 Oct 16 14:17 xim.v1.13-chat1-161008-lavany.pcap
39859 Oct 16 18:31 xim.v1.13-chat2-161008-lavany.pcap
30990 Oct 16 14:19 xim.v1.13-chat3-161008-lavany.pcap
28718 Oct 16 18:31 xim.v1.13-chat4-161008-lavany.pcap
142844 Aug 11 15:33 xobni-emailorganizer-outlookplugin1-praveen.110808.pcap
260927 Aug 11 15:38 xobni-emailorganizer-outlookplugin2-praveen.110808.pcap
32681481 Aug 11 15:19 xobni-emailorganizer-outlookplugin-praveen.110808.pcap
43932 Nov 17 17:11 xorchat-chat1-install-171108-lavany.pcap
3424 Nov 17 17:11 xorchat-chat2-install-171108-lavany.pcap
50608 Nov 17 17:11 xorchatwithencryption-chat1-install-171108-lavany.pcap
2790 Nov 17 17:11 xorchatwithencryption-chat2-install-171108-lavany.pcap
9177784 Sep 18 17:27 xtreak-filesharing-install1-praveen.180908.pcap
208840 Sep 18 17:19 xtreak-filesharing-install-praveen.180908.pcap
155219376 Aug 20 09:42 xxwyvern-gaming-lavany-200808
182218968 Aug 15 11:13 xxzeroonline-gaming-lavany-150808
1773017 Sep 18 13:40 yahooemail-businesssystems-email-lavany.180908
4090255 Sep 2 16:55 yahoofinance-prodcollab-praveen.020908.pcap
385125 Aug 29 16:02 yahooogames-gaming-lavany-290808
1521 Oct 10 15:19 yahooemessenger-101008.txt
21449615 Oct 2 17:55 yahooemessenger.download.chat.filesharing-chat-021008-lavany.pcap
17408788 Oct 2 18:33 yahooemessenger.filesharing-chat-021008-lavany.pcap
106312408 Oct 10 15:17 yahooemessenger.filetransfer10-101008-lavany.pcap
331535602 Oct 9 16:32 yahooemessenger.filetransfer1-091008-lavany.pcap
606970808 Oct 10 12:52 yahooemessenger.filetransfer1-101008-lavany.pcap
121334310 Oct 13 15:55 yahooemessenger.filetransfer1-131008-lavany.pcap
31189175 Oct 14 16:37 yahooemessenger.filetransfer1-141008-lavany.pcap
156446790 Sep 9 15:22 yahooemessenger.filetransfer2-091008-lavany.pcap
601542374 Oct 10 12:53 yahooemessenger.filetransfer2-101008-lavany.pcap
21317320 Oct 13 15:55 yahooemessenger.filetransfer2-131008-lavany.pcap
32051829 Oct 14 16:37 yahooemessenger.filetransfer2-141008-lavany.pcap
587006286 Oct 9 17:20 yahooemessenger.filetransfer3-091008-lavany.pcap
10734578 Oct 10 13:47 yahooemessenger.filetransfer3-101008-lavany.pcap
248964630 Oct 13 16:25 yahooemessenger.filetransfer3-131008-lavany.pcap
647419146 Oct 9 16:32 yahooemessenger.filetransfer4-091008-lavany.pcap
0650032 Oct 13 16:27 yahooemessenger.filetransfer4-101008-lavany.pcap
3372759 Oct 13 16:25 yahooemessenger.filetransfer4-131008-lavany.pcap
589937192 Oct 9 17:20 yahooemessenger.filetransfer5-091008-lavany.pcap
115914652 Oct 10 14:23 yahooemessenger.filetransfer5-101008-lavany.pcap
59540981 Oct 10 14:23 yahooemessenger.filetransfer6-101008-lavany.pcap
110412937 Oct 10 14:52 yahooemessenger.filetransfer7-101008-lavany.pcap
107109420 Oct 10 14:53 yahooemessenger.filetransfer8-101008-lavany.pcap
109289672 Oct 10 15:14 yahooemessenger.filetransfer9-101008-lavany.pcap
1369515 Oct 10 11:13 yahooemessenger.voicecall1-101008-lavany.pcap
1382927 Oct 10 11:13 yahooemessenger.voicecall2-101008-lavany.pcap
9749068 Oct 10 10:57 yahooemessenger.voicecall3-101008-lavany.pcap
9567518 Oct 10 10:57 yahooemessenger.voicecall4-101008-lavany.pcap
1560619 Oct 10 11:05 yahooemessenger.voicecall5-webcamserverconnectionerror-101008-lavany.pcap
1497399 Oct 10 11:05 yahooemessenger.voicecall6-webcamserverconnectionerror-101008-lavany.pcap
27327767 Nov 26 17:34 yakke-internetconferencing-install1-praveen.261108.pcap
27327767 Nov 26 17:34 yakke-internetconferencing-install-praveen.261108.pcap
305439 Sep 29 15:54 yandex-chat-install-russian-praveen.290908.pcap
9062004 Sep 2 10:00 yandex-email-russian1-praveen.020908.pcap
8835648 Sep 2 10:00 yandex-email-russian-praveen.020908.pcap
1582267 Aug 7 17:38 yoics-networking-praveen.070808.pcap
18935079 Jul 18 14:35 yourfilehost1-praveen.180708.pcap
18844222 Jul 18 14:35 yourfilehost-praveen.180708.pcap
2247944 Nov 7 11:43 yourfilelink-filesharing-webbased-praveen.071108.pcap
10220329 Sep 12 12:10 yourfiles.biz-filesharing-install-praveen.120908.pcap
43615098 Jul 17 18:00 yousendit-praveen-170708.pcap
27410366 Aug 16 18:46 yugma-collaboration-install-praveen.160808.pcap
100137809 Sep 7 17:31 yum-softwareupdate-kirk.070908.pcap
431778 Sep 17 16:28 yuntaa-onlinebackup-install-beta-praveen.170908.pcap
7745519 Sep 17 16:33 yuntaa-onlinebackup-webbased-beta-praveen.170908.pcap
3435407 Oct 3 17:12 yuuguu-internetconferencing-praveen.031008.pcap
19314581 Aug 29 11:10 zenbe-email-praveen.290808.pcap
24463989 Aug 29 09:55 zimbra-email-yahoo-install-praveen.290808.pcap
182302 Nov 17 17:11 zimm-chat-install-171108-lavany.pcap
102596 Nov 3 16:50 zimpro-chat1-301008-lavany.pcap
90192 Nov 3 16:50 zimpro-chat2-301008-lavany.pcap
1766079 Nov 6 11:34 zippyshare-filesharing-webbased-praveen.061108.pcap
182218968 Aug 15 11:13 z091-gaming-lavany-150808
1184086 Sep 2 21:01 zohocreator-prodcollab1-praveen.020908.pcap
1776124 Sep 2 20:54 zohocreator-prodcollab-praveen.020908.pcap
2396821 Jul 16 16:51 zoho-crm-praveen.160708.pcap
936769 Sep 1 12:00 zohodb-dbi-praveen.010908.pcap
122805 Sep 1 11:54 zohodb-db-praveen.010908.pcap
31475559 Jul 23 10:01 zoho-im_and_file_transfer-praveen.280708.pcap
5723458 Sep 1 13:35 zohomail-email-praveen.010908.pcap
400585 Jul 23 10:01 zoho-meeting1-praveen.280708.pcap
4122967 Jul 23 10:01 zoho-notebook-praveen.280708.pcap
1201003 Sep 1 13:01 zohoprojects-prodcollab-praveen.010908.pcap
10403221 Sep 1 12:11 zohoshare-filesharing-praveen.010908.pcap
1027354 Jul 23 10:01 zoho-sheet-praveen.280708.pcap
3327069 Sep 1 13:11 zohostart-prodcollab-praveen.100908.pcap
3744268 Sep 1 12:51 zohoviewer-filesharing-praveen.010908.pcap
1631272 Aug 22 17:21 zhowiki-prodcollab-praveen.220808.pcap
2337054 Jul 16 13:32 zoho-writer-praveen.160708.pcap
125227 Oct 24 15:00 zoiper-voip-install1-praveen.241008.pcap
847314 Oct 24 15:02 zoiper-voip-install3-praveen.241008.pcap
4177901 Oct 24 14:50 zoiper-voip-install-praveen.241008.pcap
1397875 Oct 24 12:01 zoippe-voip1-241008-lavany.pcap
1417061 Oct 24 12:02 zoippe-voip2-241008-lavany.pcap
3854779 Oct 8 12:10 zoogmo-onlinebackup-install-praveen.081008.pcap
801191 Oct 23 13:07 zoomcall.v.5.4.4-chat1-231008-lavany.pcap
867405 Oct 23 13:17 zoomcall.v.5.4.4-chat2-231008-lavany.pcap
107768962 Jul 24 23:24 zultrax-4.25free-kirk.250708.pcap
931291228 Jul 25 20:22 zultrax-4.25free-kirk.260708.pcap
1881284 Sep 19 12:10 zwiki-businesssystems-productivity-lavany.190908

Appendix B: List of applications fingerprinted

BitTorrent (Encrypted) 100bao Ants-p2p Aimini AppleJuice Ares AudioGalaxy BitTorrent (plain) DirectConnect eMule (obfuscated) ExoSee FileTopia FlashGet F2F/Alliance F2F/Retrosahre Furthur Gnunet Gnutella Globule Goboooy Grooveshark HOPSTER Hotline I2P2 iMesh KaZaa/FastTrack Kontiki Manolito Mute Omemo Openft Pando Joltid/PeerEnabler PerfectDark Pico Share EX/NT Soulseek Thunder (Xunlei) Utatane Vagaa Waste WinMX Winnny WinnnyP XDCC Xultrax Gazzera Gloster C\$Space SouGood Kamun/PPFiLM Maze OFF Freenet Boinc Brunet FileGuri PPMule TuoTu P2PIA Orbit WebThunder Kugoo Fileswire PPGOU Napster Kuro ichat-av Three Messenger TVCONNECT OPENH323nagios Spark Voice SinaUC SightSpeed Gmail-chat CiscoCTI Windows-POPUP Ventrio Effusia IM Praize Chikka IMVU Firefly PICHAT MySpaceIM http://www.omnik.com/ pages/index.jsp Omnik Potatotalk Buzz IM Wambo NetMeeting/H323 Zfone	Sim-IM POPO ChateX Pst-opnesource Weblin Jbuddy IM Digshy Instan-t Tivi Nimbuzz CameraWare Mail.ru-Russian-Video VyPress Chat Alwangwang DKMessenger http://www.theuds.com/ instant-messenger.php Gninet GoogleTalk Imagecave Miranda-IM F4ING xfire TCHAT Mediating Talk Fetion Inbit AdiIRC ParaChat Chat80 basic Pidgin WMS Messenger ZoiPPE ClosedTalk FTP-all P2K Pump FTP Proxy FolderShare Veritas NetBackup NFS ms-ds-smb idisk Deposit Files OnlineFileHosting drop.io DropBoks EatLime FileDropper MediaLife Megaupload Openomy Rapidshare Rapidupload SendSpace WebDAV Yourfilehost Yousendit zShare ZUpload Putfile Easy-Share FileFactory FileFront FileHost.tv WiiUpload.net Uploadingit Uploaded.to Kuro TurboUpload SpeedShare.org SimpleUpload ShareBig ShareBee Sendmefile SaveFile Rapidshare.de Gmail-chat Gigabyte Ultrashare.de Fileuypours File-Upload Files.to Filesend Filer.net Mofile-Chinese FileDen Filegube BigFileZ Angelbackup CrashPlan Egnyte Orbit Files-chinese SIP Net2Phone	Xtreak Send6 Sendthisfile Bigfilebox BooMP3 BoxSTI DivShare FilePanda FreeFileHosting in.solit.us Mydatabus MyFabrik Supload UpforDown WebCargo WooFiles OVI-Nokia FlyUpload iFolder.ru Imagecave Load.to MyFreeig PicturePush Onlinedisk.ru SnapDrive Tinyupload FlipDrive HotLinkFiles Upitus Clip2Net Sendalong Storyz FileVoom ShareNow Go Aruna BigFileHost Reimagine Mongofiles HugeDrive WIXI Uploadjockey Zippyshare Rapidspread Adobe-Share FileXom FileWind Filebanker Yourfilelink ZBigZSend HotShare PineBytes Fileai ShareSend FileWorks SendFile Arkiva KeepSync FreeDrive MediaMaster WikiSend SnaggyS Uploadrive Uschovna-CZ NetGull Spread-It Dump.ro MyDrive Box.Net SWISSVAULT Mozy-An EMC Company IDrive iBackup Backup-Symantec BackJack Iron Mountain iStorage-Iomaga Xdrive-AOL Service Carbonite SOS Online Backup BackUpSolutions Backblaze Steekup - France Diino ClunkClick DriveHQ Dacom Webhard Client- Korean rsync cvsup MobileMe Wuala-Alpha Jungle Amazon Fluxiom Allmydata	Powerfolder Netmass Putplace DataDepositBox VipBackup SpareBackup WizzDrive Keepit BackupandShare Web-a-file BuddyBackup Intronis Tilana SystemRecovery BingoDisk FirstBackup DellDataSafeOnline VaultUSA Veravault SoSure Sharepoint Blog Posting FC2 Blog Posting- Japanese Apple Remote Desktop Eroom.net-EMC Documentum Facebook Mail Gmail Horde/IMP IMAP (plain, SSL, TLS) Mailman MS Exchange ZoiPPE Outlook Web POP3 (+SSL) SMTP Squirrelmail RoundCube Webmail Verizon Webmail Alpine Mailer Nail Mailer Opera Mailer Turnpike Mail Thunderbird Mail SmartMailer QMail MagentMRA SPAMBlocked Yahoo Email Fastmail MS Entourage Pyzor-antispam IMP The Bat Sylpheed Voyager/VRMP - EMC FOREXreywoodUNK MrSwing Messenger InterbankFFX JQKA OptionsDirect SooChowSecurities Z39.50 MSSQL MobicareDB DHCP SPAMBOT-SPAM- suspect sploitshell BLIN-Spyware ShareNT-VIRUS Slammer-WORM Adobe/Acrobat Apple software update AVG AV update Avast! AV update Avira AV update Bitdefender AV update ClamAV update Norman AV update HP Software update Java update Kaspersky AV update McAfee AV update MS Windows Update Microsoft BITS Sophos AV update Elephant Drive File123 MP3Tunes MyOtherDrive Singtelphonenet TalkEZ-AV	Scions of Fate Secondlife Station Launcher-Sony Subspace Tanoth Tibia Tribes Trickster Twelve Sky WarpFire Wolfenstein XX Wyvern XX XBlaster XX Zero Online AsteriskAGI Bearshare7 Cabos0.8 Kceasy yahoo sports Akamai Mgmt IHMC Mapping System FreeGamesZone Games/Allin poker Games/ScrabbleClub Misc/GEAC/CIRC Media/KyteTV Misc/CodaAuth/Likely Misc/Pyxida PickupListchecker Seesmic ThreeRings Paran IRC Chat/NokiaOZ Misc/SpectrumOnline Games/Shoddybattle Miniclip Fin/MBTrading Games/Neopets Fin/Worden Games/Minglematch/ Chess DB/SciFinder Games/Sayclub Misc/yapta Misc/DOA/HandleNet Chat/Sparknetworks Games/VinaGames Games/Byond Chat/Palringo Games/ArcanaRO Misc/IntelliNetWebcam RPG Chat/Starwave Games/DotA Misc/Hope Games/GunzOnline Games/NHN P2P/FreeChalkR P2P/GetFilm Media/Tivo Misc/JavaMRQ Chat/Groopz Misc/UNICAL Misc/DicID Misc/PNMM Misc/Huntmine Misc/Probes/TracerX Misc/Ruckus/Cache Misc/Rating/ICA FiN/QuoteM P2P/Cubit Misc/OpenDHT Games/Iminlikewithyou Mionet DragonflyStorm AnarchyOnline Games/XFire utorrent P2P/BitSpirit P2P/BitTorrent/Moopolice P2P/BitTorrent/Deluge P2P/BitTorrent/ BitTornado P2P/Aquisition P2P/BitTorrent/DNA UPlayMe AIM Digichat OpenIMSCore	SLIRP ICMP emulation Apple-Airport AFP (AppleFileServer) Microsoft Routing Server AppleTV TOR (anonymity) Socks SoftEther VNC SSL VmWare X-Font-Server X11 Remote Desktop Bonjour (Cisco) Radius Accounting CAPWAP Chargen Novel NDPAP Veritas SANpoint CiscoTFTP CiscoLog CiscoTelnet FingerCisco Citrix Citrix Jedi Consentrylog CX300SAN DCC Defendbase Fortinetfw GIOp GoAway GRE HP-printing HTTP Proxy Ident IPP-printing LAN LANadmin Printer Spooler LPD-printing MS-WIN-DNS MS-WINS MSRPC Multiping Netbios-dg Netbios-ns NTP-TIME PPTP RIP RIPv2 RloginsPX RPC RPC-SUNRPC RPC-SUNRPC-NIS RPC-SUNRPC-rdsid RPC-MSRPC RPC-MSRPC-parsec RPC-MSRDP RPC-NTLMSSP RPC-RisingSearchAgent SMB SSDP SSH Telnet Teredo UPNP Xerox-Printing Hostmon - LAN Novell Time Sync DBSA-License FLEXLM--License MATLAB-License Rhapsody-License MSOfficeMAC-License MSWordMac-License Synopsys-License linkproof MDAP Novell I-Print SunRay server Iperf Office live web services Joyent TrueShare Yuntaa G.ho.st Battlefield Ba (i)Zimpro	AppServer - NextVIEW AKAMAI-RSP (CDN) Lexmark Printer Sun Storage Tek SUN-NAS RegetDeluxe Marketscore FreeDownloadManager GetRight ICOOLoader DigitalWizard Iria LightnighDownload DropSend JustUpit LocalHostr MailBigFile Condor Replication Service LOCKSS library Oversim Planetlab Ghost replication and backup Panda AV Server Hobbit Logging Altera Quartus Design Sportsline Safebox Xiaonei KyteTV OpenDHT Iminlikewithyou Itiva Kongregate Freenet6 DNS LDAP Kerberos MSAD mDNS RADIUS SNMP WHOIS Backup- LegattoNetworker acronis Brightstore HSM McAfee SiteAdvisor McAfee Personal Firewall CloudMark Anti-Spam Google Safe Browsing IVMG-Probe NESSUS-Probe helpfixpc-SPAM-MSGR regupdate-SPAM-MSGR Uploading Megashare Transfer Big Files Windows Live SkyDrive 4shared .docxoc Beta Totocxpress - content delivery eSnips ExpeDat Zoho Share Zoho Viewer EZFile Jumpcut-Beta Punch Networks Yourfiles.biz Badongo Bitroad.net Skype NetMeeting/H245 Sogou Vovida MSN/Voice STUN eyeBeam JabberSocialHI CiscotOSGW
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aMSN (filetransfer) Geo Chat Meebome Userplane Shanliao oovoo ImUNITIVE Msn2Go Rediff Bol - Indian EyeballChat http://www.icechat.net/site/ IceChat IRC/Normal I/Talk VoipBuster Faltalk I/ http://chatniddle.com/ Chat- N-Tickle Windows Communicator CamFrog Idefisk-now Zoiper ICQ2Go Zoomcall MSN/Farsight [Nettalk Brosix Skinny (SCCP) ONext Tlilian Stickam Friendvov Me. diumIM Meca Swapper (Wambo) QQ Chatgroups Chatbrowser TokBox imo.im Chatterous DeliciousAnime Instant-1 Enterprise Messenger Server LanChat2 TBX Globe7 http://retroshare.sourceforge.net/ RetroShare P2P Messenger Solegy Chainsaw QIP-Russian VyPress Messenger BigAnt-enterprise ICQ http://www.ispq.com/ SpQ Click-4-net Phone Miniworldtw mIRC GoogleTalk-Voice Xpanity Spark-IM CommFort IM2 Koolim Loveline Video Personal Adium Pownce Gizmo Peerme X-IM Persistent IM chuPPO http://www.glnetsoftware.com/glchat/ glChat imfaha FreeVOIP 123 Flash Chat NateOn BYF Chat YahooVoice Mail.ru-Russian Virtual Messenger AIM-express SIPp-Open Source test tool http://ircxpro.com/products/default.asp?product=messenger IRCxpro Gadu Gadu Bopup IM VZOChat ShoutboxUCOM CheetaChat Buddy Spy VoxOx Raketu-IM Facebook Chat ICU2 iCall ActiveWorlds Pantychat Paradise Chat Online Eyejot VooDoo Chat Wipeer Chatango http://www.gcn.cx/ GCN Chat 12voip iloveim Express Talk kzinnoventions Talkety MSN Messenger	Alibaba Toolbar Google Earth processing.org OSCP5 Dell Network Assistant Yodao Desktop Zinio Woori Bank Tencent Traveler Bypassat (proxy) Asproxy (proxy) Avoidr (proxy) Circumventor (proxy) Glype-proxy Megaproxy Jondo (anonymity) Surrogatier (proxy) Phproxy Pingfu (tunnel) Privax (proxy) Zelune (proxy/Web) VTunnel (proxy) SPipe Packetx-VPN Crossloop Desktoptwo Fastviewer Gotomypc Radmin (desktop) PCanywhere (desktop) Pandora TV Teamviewer (desktop) VNC Xdmcp YOICS Unyte Netviewer Bomgar MyIVO Anyplace Control Techinline LWAPP (wireless) Zmaap (config) Altiris-Symantec ESRO CanonBJNP Folding at Home Hawking NCSI APT MS Virtual Earth Live Search Mobile TPTEST MikroTik Router probe APC UPS sw Evernote Dealio Toolbar MSN Mobile Services Posit MS-SQM Skinkers LinkedIn Orkut Naymz Facebook hi5 Webshots Stumbleupon Livejournal Friendster WAYN Xobni MSN Spaces Bebo TVMAO Plaxo itimes-Indian Woophy Yammer AVI Babelgum CSAM CDDB CyberlinkLIVE iTunes EasyTV Flash Video Feidian Joost (encrypted) Kankan LiveStation LastFM MMS MIRO mcastIPTV MiniSAP Mercora OctoShape ORB OGG PPStream PPlive PPMate Quicktime QTRAX QQLive RayV RealMedia RTMP RTSP RTP SopCast Zoho-IM TryFast Messenger DBabble Chat PortaOne Yandex.ru FlashComs	Stashbox.org MyDocsOnline Nakido Syncplicity Cucku Adrive Zoogmo SpiderOak SugarSync http://www.omemo.com/download.html Omemo Memopal ExaVault GlobalDrive Computerstorageservi ces Storegate Youku Klikvu Crunchyroll Flizq Revver blip.tv xm-radio Live365-audio Pandora TV Pandora (radio) Ruckus Viddler Sina-Chinese RUTube OUOU MyVideo-German TVZone Photobucket-Video 56-Chinese Pomoho-Chinese 6 Rooms-Chinese- youtube Rox-online video and TV ChinaonTV -24/7 FREETUBE-online TV/Cable Channel Mogulus-Live Broadcast DaumTV-PotPlayer Vimeo-Video Sharing For you TeVooTV Ustream.TV GUBA Nifty TV-USA Mir-Internet TV Video Player Neokast Hulu-US Meaboo-chinese MeeVee Metacafe Move Networks Socialtv Vakaka MeeMix WuaLa Gample/VShare StreamerOne NinjaVideo Cofado Bebo Qik eMusic GOM TV Google Video Netflix SoapBox (msn video?) Totorosa JJAM Creative Zencast Banshee Brightcove DCS2120 - Net Camera Vivotek - Net Camera Radio Virgin Radio Raketu.tv MSNBC TV DangerRadio Play Music Videos RykoDisc Ooyala-Backlot FoxNEWS Limelight Networks river plus Videoraptor Blinkx PPMate ChannelChooser Channel King Imvite iTV LinkTV The Internet TV Software TV-Video wwiTV Sohu GoFish Clipser Ku6-Chinese LiveVideo Trilulilu-Romanian Crackys LiveLeak Songbeat Tagoo.ru	vbari AV update PatchLink update Antigen update Fujitsu NAVI update iPhone AppTap update Logitech update F-Secure AV update ZoneAlarm Symantec AV update Trendmicro updatet Rogue Remover Update ZOH0-Show ZOH0-Writer ZOH0-Notebook ZOH0-Sheet ZOH0-Meeting ZOH0-Wiki Groove (MS) jotspot-editing now google sites mediawiki-editing moinmoin-editing socialtext-editing ikiwiki-editing zwiki-editing editgrid Google-calendar Google-docs Meeting Maker thinkfree Writeboard Webex-weboffice Clarizen LiveProject Collanos EnterPlicity GatherSpace Wrike Zoho DB & Reports LiquidPlanner Zoho Project Zoho Start-Docs Basecamp Instant Business Network eXpresso Spreadsheet Yahoo Finance Message Board Seeking Alpha RagingBull MoneyControl MessageBoard-India Barrons Finance Blogs MotleyFool MSN Money Google Finance CNBC Blogs WikiDot Wetpaint Wikispaces Pbwiki Mingle Zoho Creator Blogger Dynamic Intranet Clearspace backpack-editing AOL Messageboard Posting Confluence FoxSuite Mindquarry- opensource Task Manager Buzzword-Adobe Beta HyperOffice ContactOffice ConceptShare GroupLoop Business IT Online Stixy Glide OS Bloomberg WebASyst GetiDone - Exvo InformationBuilders- WebFOCUS SAS TIBCO-Spotfire (I)QikView JasperSoft Adobe Connect Pro Campfire Elluminate Gotomeeting-Citrix netspoke-now premier global Octopz Vview Webex-cisco Yugma Blackboard-Education GraphOn Wimba Central Desktop Web Huddle Web Train Convenos Glance TurboMeeting DimDim Pixion omNovia Genesys MegaMeeting FreeConference	P2P/Blubster P2P/FileZilla P2P/Limewire BlogTV FIBS Peekshows FinalFantasyXI BarnesNoble FIS Armygame ETrade FIX FootballNFL WorldWinner Left4Dead Bencopainless EVault daytime TrendMicroURLFilter Centpoker FortinetWV BlackPlanet ATTRelayCall CingularExpress CodianMCU WindowsCommunicat or ProphetCharts MSAirSync NETBIOS-SSN InSpeakCommunicato r LANTalkNet WebBeam MSNzone Bakbone/Netvault P2P/DKS Orkut/Dicegame Spam/Cutwail Weblogic Hi5Chat Elchat LegalWestlaw OpenVPN KTorrent Transmission uTorrent Emule xtreme Mod BitComet Tudou Mediabolic UrbanTerror onferencing-Liveoffice +update VOXWire InstantPresenter Netsis LiveLook Yiuguu Oneko BrainShark iLinc Twiddla Speed Mingle Persony CloudMeeting CentricCRM Etelos-CRM opencrx-CRM salesforce SUGARCRM Tustena vlogger ZOH0-CRM iZeno Netsuite 24SevenOffice Highrise Aim-mail Hotmail Hushmail Seven-email Zenbe Zimbra Mail.com in.com Zoho Mail Mail.ru Yandex EnterpriseVault eMail ORACLE SAP MetaTraderFOREX Forex Capital Markets FxPro vCapFutures Saxo Trader ePeachtree SCM/CVS SCM/Git SCM/Perforce SCM/Subversion SCM/Mercurial JIRA Studio FileMaker MySQL POSTgreSQL TACACS AVG ArcaVir Ashampoo AntiVirus Buddy2Buddy TeamSpeak BCCITV-Cricket	WebThief DownloadAccelerator DC-Sakura Demon DDrupal DownloadExpress DownloadMaster DownloadNinja DownloadWonder SiteSucker SmartDownload SpeedtDownload WebScanner URLGetFile NetAnts NitroDownloader WebPix WebDownloaderX YanaSoftWebAuto WildsoftSurfer WebStripper wxDownload WWWoffle NicksoftWinGet NewsNTP SUN/JavaAppServer Mobile/MMS Google Toolbar titenet Blokus Counterstrike GameSpy GarenaGG GoogleLively PLAYNC MS FSX Punkbuster QQGames SteamEngine Svr1tai Vendetta Warsow WOW Yahoo Games K Defense 8 Activision - License A3 Albatross18 Angels Online Asheron's Call Bridgebase Bomberclone BOTS lobby-login +update Dance! DarkEden Darkorbit Devicide Online Yufugu DrakkarZone EverQuest Fate Fiesta Freeciv Furcadia Globulation 2 Gunbound Gunz Holic Hero Online IAHNET/GE Ikariam LineAge II Luminary MixMaster MSN Zone MU Online MythWar Navy Field update Neocron 2 Nexuz Party-Poker Poker Stars Pogo PostalServer Rakion Red Stone Rubies of Eventide RuneScape Azureus/Vuze Location/AIVDM ahoo Video Abacast AOL streaming CCIPTV CNN streaming NetShow Podcast WebEx Google Picasa JustinTV NikoVideo HelixDNA Muvie Xbox Media Center GomPlayer IndiaLiveTV ErosEntertainment- Indian Atom Wuapi Age of Conan IAX Freetv Phulki-Indian	Meebo LINAPhone Twitter Sonork Enterprise RadiusIM Chatroom 14 VSee kkURok Phweet ebuddy https://www.hushmail.com/services.php?subloc=messenger Hush Messenger AGEphone instan-t webmessenger S-IMessenger Library/WRLC Pastry Mobracer Game EMNowlivecams Pop Peeper-Email Notification Windows Media Player CyberSky TV Mail.ru Video TandbergTV Coopen Afreeca (korean) Veetle (beta) QVOD VCast (Verizon) AOL Radio (CBS radio) CoolStream DailyMotion DIGStream DivX WebPlayer NicoVideo Megavideo Habbo Hotel Win Crypto Chat Bitwise Easy Message COPhone SuperVoice http://www.moove.com/ Moove Online pffingTALK Yahoo Messenger The Palace Coccinella IM - opensource Colloquy Imeem IVE AltME Gogrok Coriwee IMC F-Prot F-Secure virus definition Rising Antivirus Trend Micro AntiVirus Intego Microsoft Baseline Security Analyzer Spybot ThreatFire AV Bullguard update NOD32 AV update ActiveSync AdobeFlash-AutoDisc Optionsxpress Shoutcast/winamp SwarmCast Slingbox TVants TVKoo TVNetworks UJUsee VGOLive Veoh WMS Youtube Zatoo Y Rawflow-selfcast M Player Yahoo GO TV VLC Player AOL uncut video MS ASF Polycom VSX800 Sorty PCS600 Flash Net Stream Xaudiocast QQMUSIC QTS Sina TV Sogou Express Storm STTV Adobe Connect Now Collaber s/Vivox ICQ/Kopete AbsoluteAntiTheft Meez Checkpoint GameknotChess Clubxiangqi
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Appendix C: Sample of signatures generated

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#http://www.cisco.com/en/US/products/sw/voiceovps/p556products_tech_note09186a0080ia62b9.shtml

#129.174.1.27:1719-129.174.107.43:1719 preamble_search: content is 82 0A 00 24 9A 06 00 08 91 4A 00 05 [...$.....J..] len 12 proto 17 dir 0 dep 23
#129.174.1.27:1719-192.148.244.133:1719 preamble_search: content is 50 90 51 80 01 00 [P.Q...] len 6 proto 17 dir 0 dep 0
signature { preamble={"50 90 51 80 01 00"}
mask={"FF 00 00 FF FF FF"} maxdepth=0 protocol=UDP pktsize={6} fixedsrcport=1719 fixeddstport=1719 }
signature { preamble={"82 0A 00 24 9A 06 00 08 91 4A 00 05"}
mask={"FF FF FF 00 00 00 00 00 00 00 00 00"} maxdepth=0 protocol=UDP pktsize={12} fixedsrcport=1719 fixeddstport=1719 }
signature { preamble={"12 C0 06 72 06 00 08 91 4A 00 04 01 00 81 AE 01 1B 00 00"}
mask={"FF FF 00 00 FF FF 00 00 FF FE FF FF 00 00 00 00 FF FF"} vsrcip={13} protocol=UDP }

Application Misc/Location/AIVDM {
#155.207.210.189:14913-195.251.168.17:5329 preamble_search: content is 21 41 49 56 44 4D 2C 31 2C 31 2C 2C 31 2C 31 33 54 52 42 32 30 30 30 31 60 68 51 40 47 40
3B [!AIVDM,1,1,,1,13TRB200001'kQ@G@:] len 1023 proto 6 dir 0 de
#155.207.210.189:14913-195.251.168.17:5329 preamble_search: content is 21 41 49 56 44 4D 2C 31 2C 31 2C 2C 32 2C 31 33 54 4F 6D 6A 30 50 30 30 31 60 6A 72 50 47 3F
73 [!AIVDM,1,1,,2,13T0mjOP001'jrPG?>s] len 49 proto 6 dir 0 dep
signature { preamble={"!AIVDM," } maxdepth=0 }
}

Application Media/Mediabolic {
#Macrovision
#UNKNOWN
#IMSyncManager:1
#N5200
#xmediabolicmq://155.207.60.88:32769/
signature { text={"xmediabolicmq://"} maxdepth=2 protocol=UDP}
}

Application Misc/GhostServer {

#129.174.73.61:49153-129.174.106.51:6666 preamble_search: content is 47 48 4F 53 54 53 56 52 70 75 73 68 31 33 30 33 00 00 00 00 00 00 00 00 00 00 00 00
[GHOSTSVRpush1303.....] len 277 proto 17 dir 0 dep
signature { preamble={"GHOSTSVRpush1303"} protocol=UDP maxdepth=0 }

#round 9999 sig 0 idx 63 count 2520 sig 0D C4 AC 00 00 24 02 02 09 01 33 07 53 65 73 73 mask FF FF F0 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF simil 1.00
signature { protocol=TCP
preamble={"0D C4 AC 00 00 24 02 02 09 01 33 07 53 65 73 73"}
mask={"FF FF F0 FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }

# is 24 02 02 09 01 33 06 4C 6F 63 61 74 65 22 01 00 24 02 02 09 02 33 07 50 72 6F 64 75 63 74 0C 02 [$...3.Locate"..$...3.Product...] len 184 proto 17 dir 0 dep 0
# is 0D C4 8C 00 00 24 02 02 09 01 33 06 4C 6F 63 61 74 65 22 01 00 24 02 02 09 02 33 07 50 72 6F 64 [....$...3.Locate"...$...3.Prod] len 268 proto 17 dir 0 dep 0
# is 24 02 02 09 01 33 06 4C 6F 63 61 74 65 22 01 00 24 02 02 09 02 33 07 50 72 6F 64 75 63 74 0C 02 [$...3.Locate"..$...3.Product...] len 184 proto 17 dir 0 dep 0
signature { protocol=UDP preamble={"24 02 02 09 01 33 06 4C 6F 63 61 74 65 22 01 00 24"}
mask={"FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }
signature { protocol=UDP preamble={"0D C4 8C 00 00 24 02 02 09 01 33 06 4C 6F 63 61 74 65 22 01 00"}
mask={"00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }
signature { protocol=UDP preamble={"0D C4 98 00 00 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00"}
mask={"00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }
signature { protocol=UDP preamble={"24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02"}
mask={"FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }

#1 is 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 0C 02 21 00 00 [$...3.Status"..$...3.Name...!] len 242 proto 17 dir 0 dep 0
#2 is 0D C3 B9 00 00 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 [....$...3.Status"...$...3.Name] len 249 proto 17 dir 0 dep 0
#3 is 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 0C 02 21 00 00 [$...3.Status"...$...3.Name...!] len 243 proto 17 dir 0 dep 0
#3 is 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 0C 02 21 00 00 [$...3.Status"..$...3.Name...!] len 276 proto 17 dir 0 dep 0
#5 is 0D C4 97 00 00 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 [....$...3.Status"...$...3.Name] len 279 proto 17 dir 0 dep 0
#177 0D C4 98 00 00 24 02 02 09 01 33 06 53 74 61 74 75 73 22 01 00 24 02 02 09 02 33 04 4E 61 6D 65 [....$...3.Status"..$...3.Name] len 280 proto 17 dir 0 dep 0
}

Application Misc/UNKNOWN/P9101 {

# .1 content is 1B 40 0F 1B 57 31 20 20 20 20 20 20 20 20 20 20 20 CA E1 F1 F4 DD EB
[.@..W1 .....] len 1350 proto 6 dir 0 dep 0
# .1 content is 1B 40 0F 1B 57 31 20 20 20 20 20 20 20 20 20 20 20 CA E1 F1 F4 DD EB
[.@..W1 .....] len 1375 proto 6 dir 0 dep 0
# .1 content is 1B [. ] len 1 proto 6 dir 0 dep 0
# .3 content is 1B 40 0D 1B 74 01 1B 36 1B 52 00 1B 50 1B 78 01 1B 32 1B 43 42 0D 0D 1B 4A 13 1B 5C 02 00 1B 4C [.@..t..6.R..P.x..
2.CB...J...L] len 1460 proto 6 dir 0 dep 0
# .3 content is 1B 40 0F 1B 57 31 20 20 20 20 20 20 20 20 20 20 20 CA E1 F1 F4
[.@..W1 .....] len 1460 proto 6 dir 0 dep 0
# .37 content is 1B 40 0F 1B 57 31 20 20 20 20 20 20 20 20 20 20 20 CA E1 F1 F4 DD EB
[.@..W1 .....] len 1460 proto 6 dir 0 dep 0
signature { preamble={"1B 40 0F 1B 57 31 20 20 20 20 20"}
mask={"FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }
signature { preamble={"1B 40 0D 1B 74 01 1B 36 1B 52 00"}
mask={"FF FF FF FF FF FF FF FF FF FF FF FF FF FF"} maxdepth=0 }
}

Application Chat/Mate1 {
#129.174.192.15:1876-69.90.181.5:1048 preamble_search: content is 3C 6E 65 77 5F 6E 6F 74 69 66 79 20 73 69 64 3D 22 66 62 64 61 64 34 31
39 30 32 30 62 30 63 30 [<new_notify sid="fbdad41902
#129.174.89.156:3969-64.34.193.177:3114 preamble_search: content is 3C 6E 65 77 5F 6E 6F 74 69 66 79 20 73 69 64 3D 22 66 62 64 61 64 34 31
39 30 32 30 62 30 63 30 [<new_notify sid="fbdad41902
#129.174.89.156:4464-64.34.193.177:3114 preamble_search: content is 3C 6E 65 77 5F 6E 6F 74 69 66 79 20 73 69 64 3D 22 30 39 65 64 64 34 30
32 33 30 30 37 39 33 63 [<new_notify sid="09edd40230
signature { preamble={"<new_notify sid=" } maxdepth=0 }
}

Application Chat/Netdrive {
#129.174.89.156:4077-64.34.193.177:3114 preamble_search: content is 01 B4 31 C0 80 31 C0 80 2D C0 80 37 08 4E 61 
```

(11) Software and Hardware

Not foreseen as part of the project deliverables.