



Final Technical Report

Data Shaping in the Cultural Simulation Modeler Integrated Behavioral Assessment Capability

Phase I

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14. ABSTRACT Data shaping in the Cultural Simulation Modeler was performed for the Integrated Behavioral Assessment Capability Phase I. The project leveraged IndaSea's Cultural Simulation Modeler™ application and the Rapid Human Assessment Information System browser-based interface developed by Oak Ridge National Laboratory, now known as the Universal Analyst Interface. IndaSea developed a Cultural Simulation Modeler Query Application Programming Interface, enabling connection to a database of 380,000 news articles on Indonesia. Essential Elements of Information relating to a selected scenario were structured in a template in the Universal Analyst Interface, and the template mirrored in the Cultural Simulation Modeler. Systems users logged in remotely, and sent selected template questions to the database. The Cultural Simulation Modeler indexes text and uses a Cultural Construct as a conceptual core to achieve culturally specific data shaping. Each question was expanded to form many queries in the Cultural Simulation Modeler, in order to adapt to cultural word usage as represented in the international news sources. The combination of structured information and cultural adaptation aimed to provide enhanced understanding for the analyst. Successful integration of culture, cultural construct, Cultural Simulation Modeler, CSM, data shaping, point of view, POV, human behavior modeling, essential elements of information, EEI, Universal Analyst Interface, UAI, cultural adaptation, news database, analyst tool, modeling software, template, query					
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Acronyms Used in this Report

AFOSR	Air Force Office of Scientific Research
API	Application Programming Interface
CSM	Cultural Simulation Modeler
EEI	Essential Elements of Information
DTRA	Defense Threat Reduction Agency
IBAC	Integrated Behavioral Assessment Capability
NRL	Naval Research Laboratory
ORNL	Oak Ridge National Laboratory
POV	Point of View
RHAIS	Rapid Human Assessment Information Systems
SME	Subject Matter Expert
UAI	Universal Analyst Interface
UI	User Interface

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Data Shaping in the Cultural Simulation Modeler (CSM) For Multiple Models

Integrated Behavioral Assessment Capability (IBAC) Phase 1

1.0 Summary

The Integrated Behavioral Assessment Capability research initiative was designed to provide an integrated system that would aid the analysts and subject matter experts who are called upon to perform assessments of situations and scenarios relevant to matters of security now and in the future. The design took into account the need for an integrated set of components: (1) a web browser-based user interface that provided templates to facilitate analysts in gathering assessment related data; (2) a database that was prepared to respond to system users in remote locations using the interface; (3) analysts who created queries to the system and then created the assessments; and (4) a utility that integrated multiple assessments on the situation or scenario of interest for presentation to a decision maker.

The work performed in this phase of the initiative took the first steps in creating this capability. A user interface was designed and tested, and the database was prepared for optimum response to the system user. This was accomplished by mirroring the template in use, and then performing an expansion of the template queries to extract a wide variety of relevant information from the database quickly. An application programming interface to the database was successfully deployed to connect the user interface to the database.

IndaSea Inc. performed the database services and specified the application programming interface utilizing the Cultural Simulation Modeler software application. Oak Ridge National Laboratory provided the user interface, now known as the Universal Analyst Interface. The Naval Research Laboratory contributed technical oversight, research and testing. Three Subject Matter Experts contributed content for the scenario chosen and interface testing. They were Alenka Brown-Van Hoozer., the project Principal

Investigator at the Defense Threat Reduction Agency, Helen Purkitt, at the U.S. Naval Academy, and Jerold Post, at George Washington University.

To prepare the database, IndaSea customized interfaces in the Cultural Simulation Modeler software application, in order to provide administration tools geared toward providing support for the templates in the Universal Analyst Interface. After creating the Cultural Simulation Modeler Query Application Programming Interface, which enabled system users to query the database from remote, IndaSea performed in-house tests. These tests simulated remote users querying against an existing database of 380,000 news articles.

The entities involved collaborated on the design and development of the integrated system. The Oak Ridge National Laboratory implementation of the Universal Analyst Interface was tested against the Cultural Simulation Modeler database as the project progressed. A successful demonstration of capability was held on June 29, 2007, that included multiple remote users accessing the integrated system remotely. Prior to the close of the first phase, plans and work specifications were made for the Integrated Behavioral Assessment Capability Phase II, which will expand on the work of Phase I, and include the assessment creation process and an assessment integration module.

Looking ahead to follow-on phases, and based on the Phase I experience, IndaSea has made certain recommendations for the future. First, design consideration should be given that makes clear the extent to which templates can be formed dynamically in response to the user's need, and examines ways to accomplish this. Second, as the integrated system is utilized by analysts and Subject Matter Experts, a body of rich user history will be accumulated that forms a collaborative knowledge base regarding the approach to making an assessment. Ways to leverage this accumulated user history should be examined. Finally, as new templates containing the Essential Elements of Information proliferate over time, an administration system for the templates themselves should be anticipated.

2.0 Introduction

The Integrated Behavioral Assessment Capability (IBAC) was conceived as a multi-year technology project to build an integrated software platform to fulfill two key aims. One aim was to service analysts and Subject Matter Experts (SMEs), by providing tools to help their research and data acquisition efforts. The approach was to provide a customized, web browser-based User Interface (UI) that delivered templates to their desktop. The templates would organize questions and queries regarding a scenario of interest, and enable more successful database queries. The second aim was to achieve a significant improvement in the accessibility of expert advice for the decision maker. The approach for the latter was to build a tool to integrate multiple assessments that had been written by a variety of analysts concerning a situation or scenario of interest, thereby enabling aggregation and consolidation of concurrent or dissenting views. The concept put forth by the Defense Threat Reduction Agency (DTRA) was to build an integrated software platform that hooked together three main components: a specialized user interface (UI), a database prepared to aggregate and disseminate information to the UI, and a software application module that would integrate the assessments.

The first year of the project, IBAC Phase I, was executed by a diverse group including individuals and government and commercial entities. Oak Ridge National Laboratory (ORNL) was called to leverage their Rapid Human Assessment Information Systems (RHAIS) interface (see <http://www.ioc.ornl.gov/overviews.shtml> for information about RHAIS) toward the development of a customized user interface called the Universal Analyst Interface (UAI). Core to the design of the UAI was the intention to provide scenario templates, which would help the analysts by suggesting and semi-automating the structure of questions sent to the database, and by providing a consistent approach to gathering the data. The Naval Research Laboratory (NRL) involvement provided research, evaluative and oversight and testing functions for Phase I and helped prepare for Phase II development of the assessment integration module. SMEs in Phase I directed their expertise toward naming an example scenario, recommending content for the scenario template, and testing the IBAC platform.

IndaSea was called upon to leverage the Cultural Simulation Modeler (CSM) software application, toward providing the back end database and data shaping functions needed to support the UAI. The CSM is a software system incorporating a series of functions that enable:

- Assimilation of global media and other available text data, and analysis of relationships found in the data
- Formulation of cultural constructs that explain the cultural points of view (POV) of the various stakeholders in a situation, as well as the POV of the analysts looking at the data
- Utilization of the cultural constructs in the CSM database as a means to filter global media feeds and extract data that is germane to understanding the behavior and the POVs of the stakeholders in a given situation or scenario.
- Processing and visualization of correlations, trends, and other relationships found in the data.
- Preservation of a collaborative knowledge repository to aid in assessment and anticipation.

The CSM used an example database on Indonesia, comprised of about 380,000 news articles that appeared in global media in the years 1999-2006. The articles were all open source information and were obtained in part through an agreement between Factiva Dow Jones and the NRL for this project, and in part collected by IndaSea from the Open Source Center database and a variety of other internet sources. The total CSM Indonesia database was utilized for Phase I.

The following report describes the research performed by IndaSea in applying the tools of the CSM toward achievement of the objectives of IBAC Phase I. The emphasis for IndaSea in Phase I was on utilization of the news processing and information delivery capability of the application. It is anticipated that additional functionality of the CSM will be utilized as the project moves forward into Phase II.

3.0 Research Objectives

The main IBAC Phase I objectives were to design, implement, demonstrate, and test an integrated UAI-CSM software platform that would service SMEs and analysts in gathering and organizing data. It was assumed that the SMEs who would use the IBAC platform were to be in different remote locations.

IndaSea-specific research objectives, in support of the main research objectives cited above, were:

- To design and specify an application programming interface (API) that would enable remote users to send queries to the CSM database through the UAI, and would enable the return of data to the UAI. This API is now known as the CSM Query API.
- To support ORNL's implementation of the CSM Query API in the UAI.
- To maintain the data environment for Phase I.
- To import a scenario template structure into the CSM, in order to prepare the CSM to receive template formatted questions and queries.
- To expand the template queries, run the queries, and deliver article returns back to the UAI.

4.0 Methods and Procedures

A planning phase for IBAC had been completed prior to starting Phase I work. During the planning phase, the project participants met, presented and demonstrated their previous relevant work, and discussed its applicability to the IBAC project. The overall design for a multi-year implementation of the IBAC platform was discussed. The deliverables required for all parties involved were coordinated for IBAC Phase I. A separate report on this planning phase is included with this report as *Appendix A: IBAC Planning Phase Report*. A diagram of the projected integrated platform is included.

4.1. Overview of the Design for the Integrated Architecture for Phase I

Realization of a simplified version of the integrated architecture was presented as the goal of Phase I.

Figure 1. An Overview of IBAC Phase I Architecture

Figure 1 below shows a simple block diagram of the IBAC Phase I integrated architecture to be realized. System users 1, 2 and 3 are SMEs, who are expected to log in from three separate remote locations. The IndaSea facility in Hawaii houses the IBAC server, which is operated and updated by ORNL personnel. The CSM Query API specifies communication between the UAI and the CSM, which is also running at the IndaSea facility. The CSM supports the template questions, query expansion and returns articles back to the user of UAI.

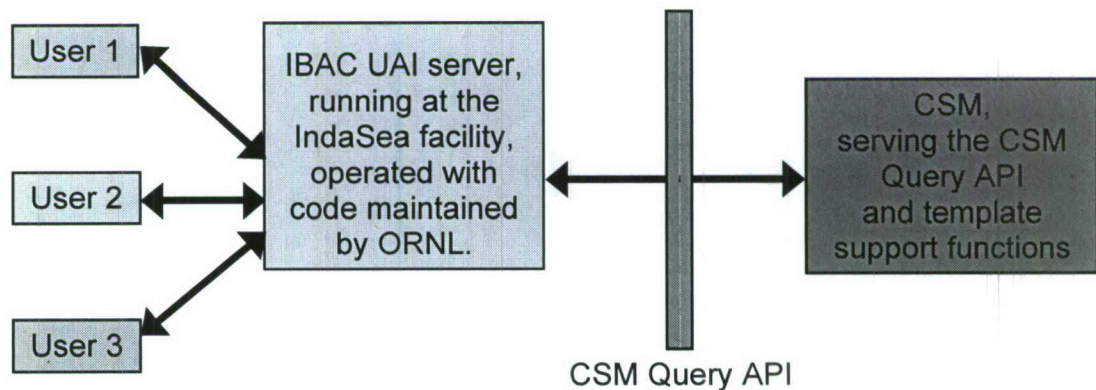


Figure 1.

4.2 Overview of the Approach

The ensuing work process necessitated coordination and cooperation between IndaSea and ORNL personnel, as there were many mutual dependencies inherent in the project. An iterative process of software testing, debugging and refining features of the integrated system was the operational mode. IndaSea maintained the CSM and IBAC UAI servers up and running 90% of the time during period of performance to accommodate testing the integrated function of UAI and CSM applications. The testing increased as the project progressed and the interface became more functional.

To accommodate extensive diagnosis and debugging processes, a system monitor was implemented in the CSM that would track and print user log files of all incoming UAI traffic on the CSM.

Figure 2. Monitoring communication in the CSM Command API

Figure 2 below depicts the monitor, called the CSM Command API, which is shown running as article returns are sent back to the user. The CSM Command API captures all CSM services called for by system users, records UAI user login times, the user names, and the articles sent back to the UAI browser. Any technical errors occurring during the test can also be referenced in the CSM Command API log file.

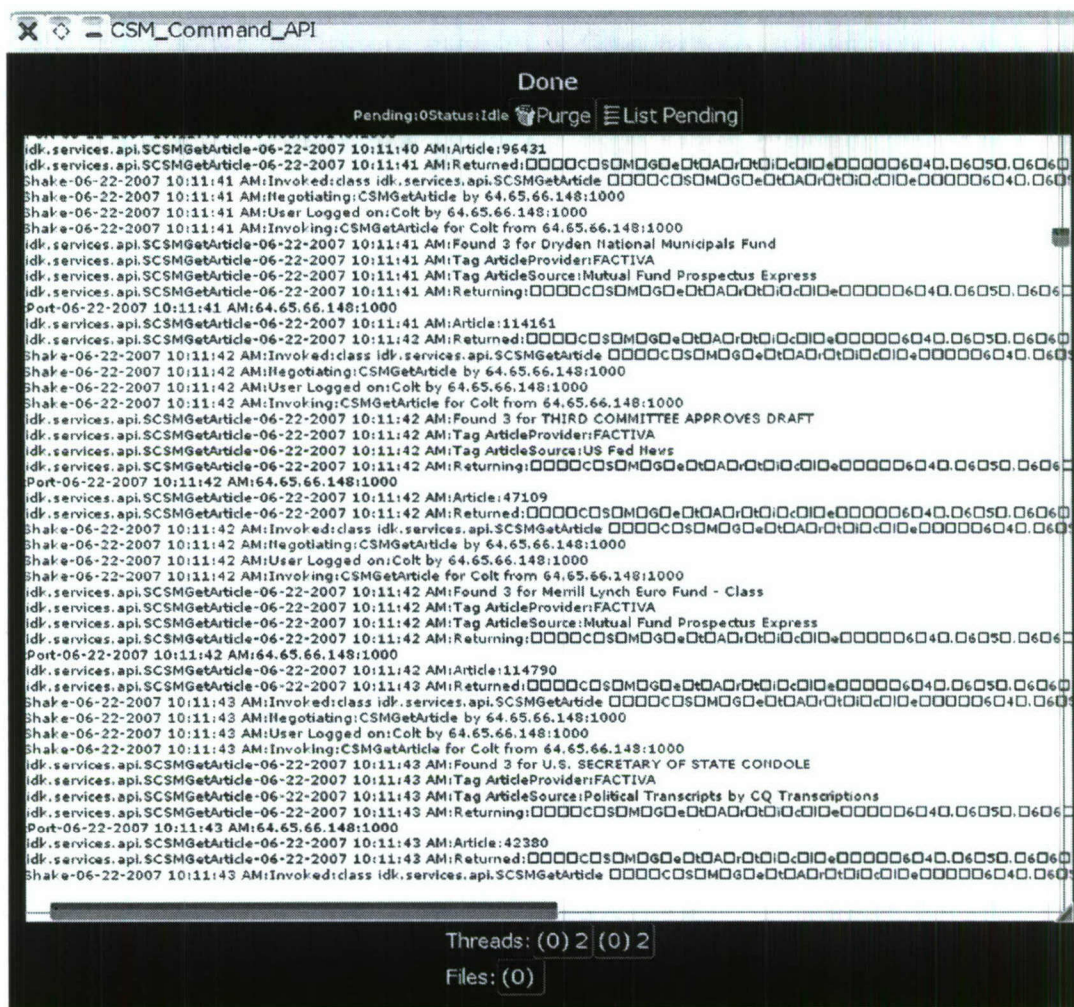


Figure 2.

4.3 The Scenario Template

An example scenario had been selected during the planning phase, in order to have a content focus for Phase I. Indonesia was chosen as the location of the example scenario to coordinate with the CSM Indonesia database that was available for project use. The scenario read “How do Islamist groups such as Jemaah Islamiyah affect the Indonesia government, Indonesian President Yudhoyono and Vice President Kalla?” The three SMEs working on IBAC, Alenka Brown-Van Hoozer, the DTRA Principal Investigator (PI), Helen Purkitt, at the U.S. Naval Academy, and Jerold Post, at George Washington University were consulted during the selection process.

A set of questions about the scenario developed by the SMEs, then formed the initial content basis of the template. IndaSea suggested a columnar design for the template. *Appendix B: Formatted Template Questions*, provided with this report, contains the complete set of template questions, formatted by IndaSea in columns and sent to ORNL to create the template. For ready understanding, Table 1 below shows a sample of three template questions in columnar format.

Table 1. Example of the Columnar Template

Key	Value	Key	Value	Key	Value
Country	Indonesia	Institution	Government	Conflict	Religious
Country	Indonesia	Group	Islamist	Jihad	Anti-Western
Country	Indonesia	Group	Jemaah Islamiyah (JI)	Mission	Islamic State

The designed called for the user to check an item or items in each column on the template. The next column with more selections was revealed after each check. The collection of items checked by the user formed a question about the scenario.

The user's question was then transmitted by the UAI to the CSM, to query the Indonesian news database. However, querying a news database for the exact words used to create a question will not always yield sufficient, if any, returns. This occurs because word usage can vary from source to source. Therefore, query expansion is needed to create variations on the words included in the template question. IndaSea's approach to managing query expansion was to install a template administration interface that organized the query list to respond to the template structure.

Figure 3. The Template Admin

The set of template questions was imported into the CSM. Signals were attached to each template question using the Template Admin. Figure 3 depicts the Template Admin. At

the top is a word navigator, shown as a directed graph, for the template questions. Below each question (shown in the figure preceded by a pencil icon) is the attached signal (shown preceded by the magnifying glass icon). Vertical blue bars denote activity in the signal on a given day in the given date range shown at the bottom of the interface. The date range is adjustable.

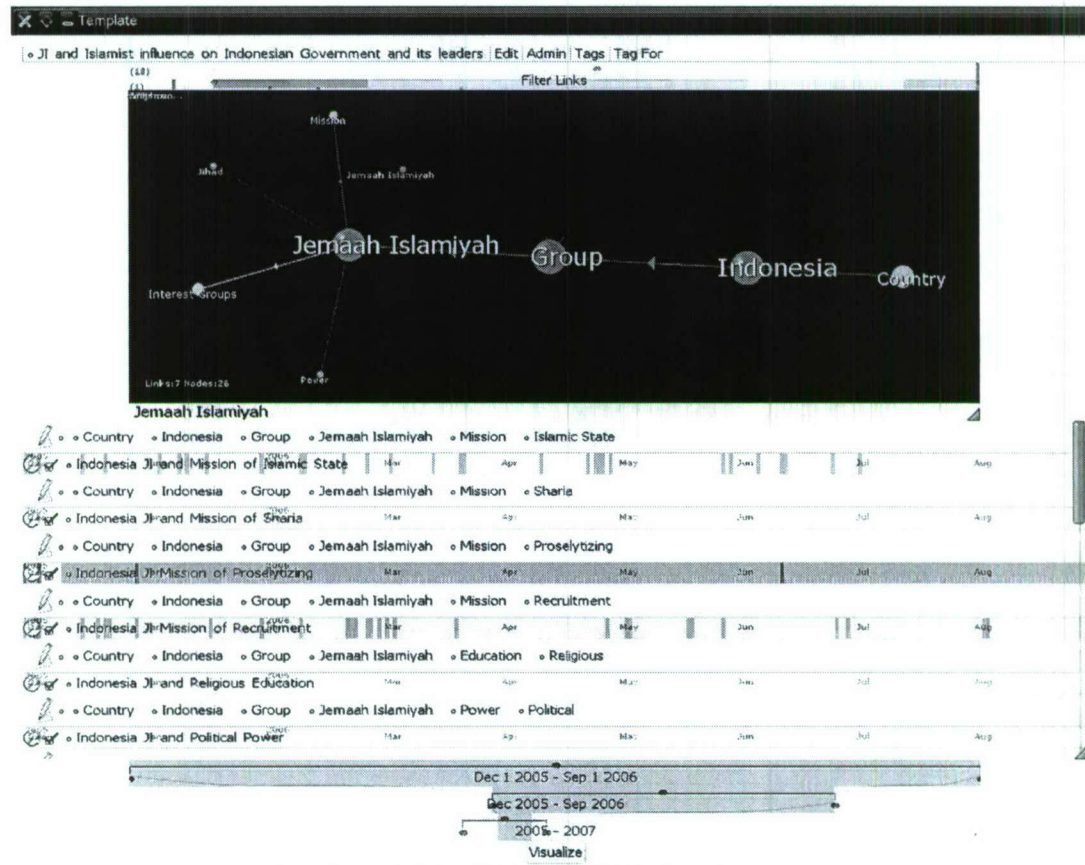


Figure 3.

Once the signals were created, the query was expanded using the Add Query interface in the CSM. Words in the queries were typically run with proximity settings to improve accuracy of the returns. The proximity settings are adjustable. Roughly 50-100 queries were built for each question. CSM tools automatically generated the queries after the expansion terms were specified by a CSM operator. During this process, tests are run to establish the effectiveness of the query set that forms the signal for each question.

As an alternate method for the selection of expansion terms, lists of synonyms and variations retained in the CSM can substitute for the human entry of terms in the Add Query interface. This implementation in the CSM requires routing of an incoming template question sent by the UAI to synonyms, variation lists, and/or culturally specialized terms. These word lists would optimally be customized and tested in advance by human operators against various news sources, which may have cultural differences in word usage. A machine generated list of expansion terms can then be used to form the expanded queries, rather than a human generated list of expansion terms. Implementation of this alternate method is a step toward full automation and requires extensive building of word lists prior to deployment. As such, both the human and hardware resources needed to deploy this more fully automated query expansion method were out of the scope of the IBAC Phase I project.

Figure 4. The Add Query Interface Used for Query Expansion

The Add Query interface for Query Expansion is depicted below in Figure 4. The name of the signal, Indonesian Islamist Group Against Democracy, is shown at the top. Query expansion terms are entered by the human operator, with default proximity settings appearing that can be edited if desired. The queries are then automatically generated. The CSM immediately starts delivering returns. The queries were running at the time this image was captured. An article returned from Guardian International Pages is shown as a return for the second query expansion. Transparency is retained when the returns are sent back to the UAI, so that the UAI user can see which expanded query returned an article.



Figure 4.

The CSM operator periodically performed a check to verify the accuracy of the article returns. The Signal interface is used for this purpose.

Figure 5. Signal Interface Display of Returns by Day

The Signal interface is depicted in Figure 5. In the figure, the signal title, Indonesia JI Mission of Recruitment, is displayed in the top line. Below the title is an adjustable date range selector. Listed are the particular phrases in the article, called Why Actives or stripings, in which the query has been found. The article stripings are listed by date. A waveform of the signal is displayed, showing the level of day by day activity in the set of

article stripings returned. The waveform is useful for various analysis and diagnostic functions in the CSM application.

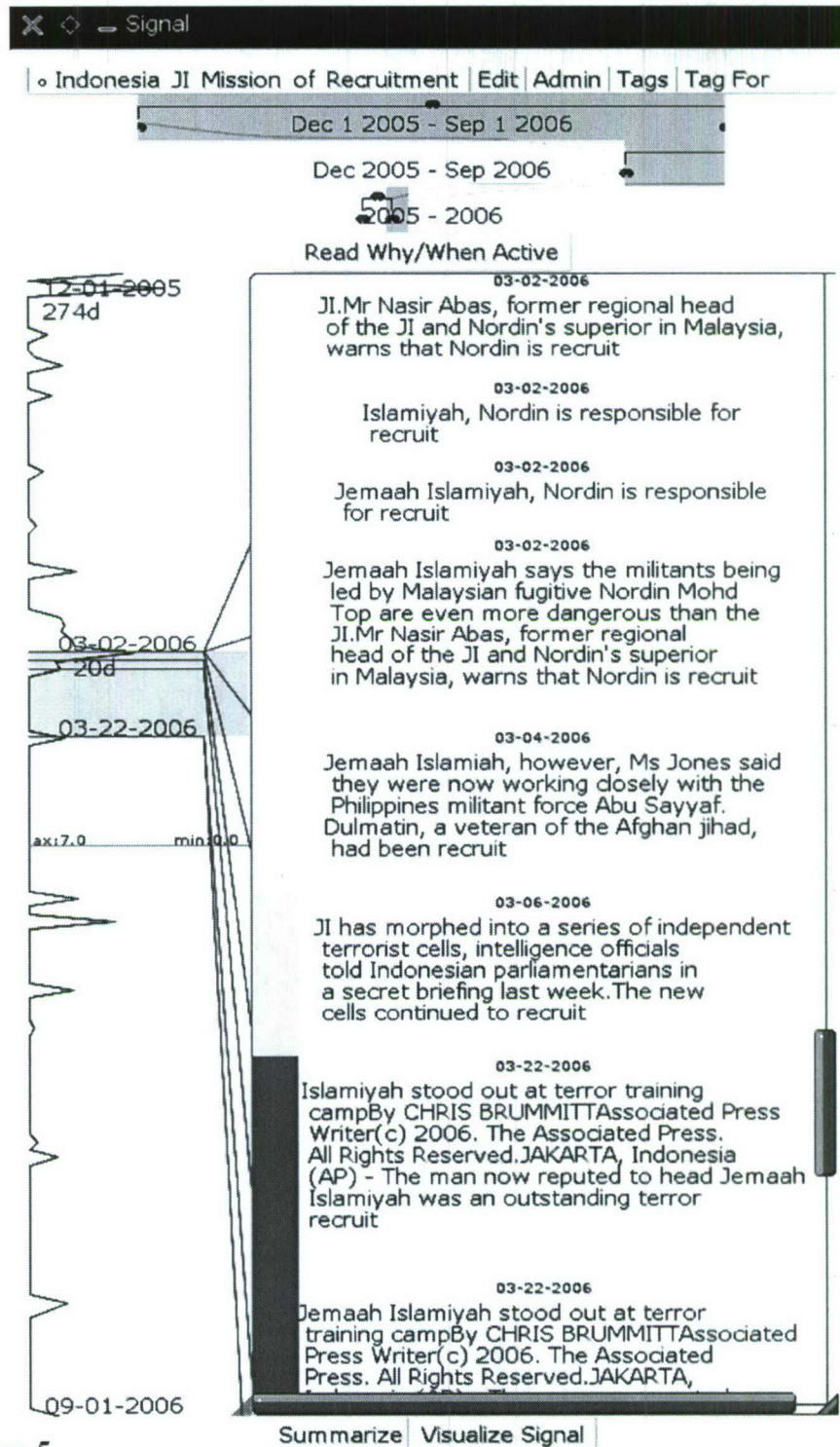


Figure 5.

4.4 The CSM Query API

The CSM Query API was written, implemented and tested for the IBAC project. The CSM and the CSM Query API utilize the Java programming language. An implementation example of the CSM Query API was provided to ORNL. IndaSea's preferred implementation is the implicit invocation style of software architecture, due to its flexibility to adapt to changing requirements. Benjamin Edwards explains the implicit invocation style in his article "An Introduction to Implicit Invocation Architectures¹." Due to the proprietary nature of software code, IndaSea was not privy to the actual implementation methods of ORNL applied to the UAI. The CSM Query API is provided as *Appendix C.1: CSM Query API* to this report. The implementation example is provided as *Appendix C.2: Example-TestCSMCommandAPI.java*.

¹ See Edwards, Benjamin, "An Introduction to Implicit Invocation Architectures," URL: http://www.mach-ii.com/resources/intro_to_implicit_invocation.pdf. For a comparative discussion of software architectural styles, including the implicit invocation style, see Garlan, David and Shaw, Mary, "An Introduction to Software Architecture," URL: http://www.cs.cmu.edu/afs/cs/project/able/ftp/intro_softarch/intro_softarch.pdf, January, 1994.

5.0 Results

The results described pertain only to IndaSea's perspective on those related to the Cultural Simulation Modeler performance as a key working component of the integrated IBAC system, differentiated from UAI related results, which are not the subject of this report.

Communication was established between the UAI and the CSM. IndaSea created and ran a test unit, comprised of computer code that utilized the same CSM Query API that was provided to ORNL. Simulating access by remote users, IndaSea ran the test unit and tabulated the number of possible returns from the example Indonesia database for each separate query expansion. This activity was performed in order to:

- verify the usability of the CSM Query API
- verify the consistency of response from the database through CSM Query API
- establish a baseline for the number of returns to be expected for each query that was available, so that comparisons could be made to the returns available through the UAI

The test unit was provided to ORNL for their use. The test unit, entitled CSM Template Test, along with a README file, accompany this report as *Appendix D.1: CSM Template Test README*, and *Appendix D.2: CSM Template Test*. The results of IndaSea's test of each separate query expansion are provided as well in *Appendix E: Query Expansion EEI Template Log*.

At a demonstration held on June 29, 2007, three remote users accessed the system simultaneously and utilized the UAI to enter various questions. The users selected template questions to send to the database, as well as uniquely conceived free form queries that were entered in separate locations on the interface form provided for this purpose. At times the users consciously attempted to stress the system, for example by entering queries for which a large volume of returns were expected. IndaSea personnel verbally reported the live user activity visible on the CSM Command API screen, and the CSM returned results to the three users successfully throughout the demonstration.

6.0 Concluding Remarks

The use of templates was a key part of the client-specified design scheme from the onset of the planning phase for the project. One of the original goals for the IBAC project was to instantiate Essential Elements of Information (EEI) into templates. The system user would then access the template or templates that were appropriate for the particular scenario under study. At the basic level this worked well. There were not many templates for Phase I and a simple list of available templates proved adequate for navigation. The user was able to read the list and make a selection from this template menu. It was observed that ease of selection could become more difficult in the future as the number of templates grows. Users may not always be able to discern from template titles which are relevant to their research.

This observation is related to discussions on the various types of analysts who are the intended users of IBAC, and the fact that analysts at different levels of expertise have different skills, needs and methods. A skilled analyst familiar with the assessment subject material, for example, could find it easy to navigate a simple template selection menu presented in list form and find what is needed. Moreover, in regard to the more experienced and skilled analyst, one opinion was voiced in the course of the project that an SME or expert analyst would find templates too restrictive as a canned or fixed element in their research process. This view implied that a system geared to assist analysts should be open and completely dynamic. It is IndaSea's perspective that there are advantages to an open system and there are advantages to a template system that does impose some formats and forms.

While an open system provides the user more freedom to wander about looking for particular items, it requires a higher degree of understanding about the particular databases being accessed and perhaps a higher degree of familiarity with the analyst's eventual assessment objectives. Less experienced analysts that have yet to establish their own methodology for completing different types of assessments may prefer the templates to get started, as these provide a knowledge base to help in approaching problems. This

outlook is in keeping with the project design goals of providing novice analysts guidance within the interface.

IndaSea looks upon the templates, and the possibilities to elaborate and build upon the template concept, as an opportunity to provide the system user both with a better understanding of how words appear in the press and more transparency to the information gathering process. An example of why this is important becomes easy to find when one considers the very common occurrence of words meaning different things to different cultures, and the commonly known fact that certain news sources also use very particular phrasing in order to speak about certain topics. For instance, during IndaSea's data acquisition efforts in 2006, it was noticed that the Open Source Center, a popular translated archive of global news available for government use, had an apparent translation rule so that the word *madrassa*, which is an Islamic religious school and appears frequently in global media sources as well as cultural texts, did not appear in news articles translated to English. Instead, the word *seminary* was the translation used to mean a religious school.

It was not readily apparent to the user that this was the case and it could take some time for each user to discover the translation conventions in use by a particular source. However, from an IBAC system perspective, if template organization is accompanied by monitoring tools to learn not only which template questions are frequently chosen, but also which related articles the users found helpful, then observations regarding the aggregated interaction across the entire set of users could prove very valuable. This aggregation of data would lead to system improvement, such as more inclusive query expansion. For example, the term *seminary* would be entered in the system as a preferred expansion of *madrassa*, if a set of users had marked articles mentioning *seminary* as valuable for answering the EEI question. The adaptation of the improved query expansion set to the news sources in the system would then facilitate data access with increased accuracy. Observations such as this one may be more easily made where templates have been used, because the common content focus across spectrum of users is

consistent and discernable, and ways to automate improvement of components such as word variation lists can be envisioned.

IndaSea supported use of the simple templates for Phase I, and would anticipate a more complex data structure to add features, such as discussed above, to the system. The data structure provided by a template is fixed, but at the same time the data structure can be the implementation point for support features including collaboration in the context of specific EEIs, and the building of a knowledge base through system use over time. The importance of implementing a flexible data structure that can support a wide variety of anticipated uses has been a major design consideration of the CSM.

The EEIs in use to answer the Phase I scenario composed the available knowledge base and influenced the content structure of the template. This group of EEIs together provided a contextual understanding of the example scenario and a organized method to gather scenario assessment information. As the project matured, the constraints of a fixed template were felt and there was some effort to make them more flexible. This effort was accompanied by discussion about the nature of a dynamic template. The implication is that a dynamic template is a more robust structure that needs definition in order to be implemented. While the project did successfully implement the inclusion of a free form query within the template structure, an even more robust structure to support the free form interaction of novices, as well as advanced users, would be highly desirable. For example, it may be possible to design a way to dynamically form new templates in response to entering a new scenario description with the help of system observations about past user behavior. The potential for a robust, behind the scenes structure to facilitate other knowledge enhancement techniques is possible. These advancements would then be consistent with the original, stated goals of the IBAC project.

7.0 Recommendations

The design of IBAC calls for a multi-year project. The recommendations in this section are for consideration not only in the near term Phase II, but in the longer term for Phases III-IV. In the context of the information provided in the previous section, Concluding Remarks, it is recommended that:

- The history of system use by analysts and Subject Matter Experts be captured and retained in the IBAC system to the largest extent possible. In general, ways to leverage the end users' collaborative knowledge base can now be designed. The broadest possible leveraging of this information should be considered in the design, even though the actual implementation in the system may trail the design work considerably. The rationale is to prevent system shortfall under heavy use at a future date. The path is to take advantage of mining the amalgamated user history, in order to get more focused information to a large body of users in the fastest way possible.
- A data structure that anticipates the need to manage a growing body of EEIs should be implemented in future IBAC phases. The data structure should enable a more fully featured UAI interface that anticipates a dynamic template structure, and a way to adapt rapidly to user requests after the integrated system is deployed and feedback from analysts is obtained. The data structure could be comprised of a collection of relational paths, as an addition, or possible replacement, to the hierarchically organized data structure applied in the template in IBAC Phase I. One way to represent the structure of relational paths is via a directed graph, comprised of nodes that may be single words, template queries, template questions, or entire templates, depending on the information navigation requirements. The nodes could be connected by arrows between nodes. A simple example of a relational path representation is depicted in this report as *Figure 3: The Template Admin*. The hierarchically organized structure currently in use in the UAI is typically represented as a data tree, and by its nature imposes restrictions on the ability to navigate data quickly and intuitively. In this context,

it should be noted that the coming generation of analysts will be more facile with technology in general, and more accustomed to advanced interfaces.

- A Query and Template administrator, a skilled human operator, should be included as part of a long term implementation plan, in order to enable a more mature IBAC system to stay optimized and run efficiently. The administrator functions would facilitate:
 - Utilization of the accumulated use history, as contributed of a body of SMEs and analysts who have entered free form queries, toward the creation of new templates. These new templates could be organized around topics of common interest, as observed in the data by the administrator.
 - Improvement of query expansion techniques through observation of the rate of successful returns, as determined by monitoring which articles the user selects, or by requesting the users provide data on the best articles. This could be accomplished easily by the inclusion of a check box next to every article returned in the UAI.
 - Management of templates as they proliferate.

Appendix A:

Data Shaping in the Cultural Simulation Modeler (CSM) for Multiple Models

Integrated Behavioral Assessment and Anticipation (IBAC) Planning Phase Report

IndaSea Inc. participation in the IBAC planning phase was sponsored under Air Force Office of Scientific Research (AFOSR) contract #FA9550-06-C-0029, with the support of Defense Threat Reduction Agency (DTRA) and the Naval Research Laboratory (NRL).

Objectives:

The main objective of the planning phase was the creation of an integrated technology design and an execution plan for subsequent research phases for IBAC. Since the research was conceived as a cooperative effort among several entities, including government agencies and commercial groups, an additional objective was to familiarize all parties with the CSM software application and the Oak Ridge National Laboratory (ORNL) RHAIS interface, in order to enable evaluation of appropriate use in the integration project.

Overview:

The goal was to prepare for further research efforts. The research plan called for IndaSea to extend data that had been aggregated and shaped in the CSM to Subject Matter Experts (SMEs). The CSM data would have to be available remotely on the internet through a new IBAC interface built by ORNL. The SMEs would use the data, their models, and their expertise to write assessments. The NRL was to integrate the assessments prepared by multiple SMEs to a final product.

The plan that was developed was consistent DTRA's initial concept and included input from IndaSea, NRL, and ORNL personnel. It called for a remote interface to be built by ORNL that structured questions, or Essential Elements of Information (EEIs), about a selected scenario. The collection of questions was to be held in a template. The SMEs would provide their expertise to help structure the template questions.

The SMEs would then use the template, accessed via the IBAC interface to query the CSM database containing roughly 500,000 news articles on Indonesia. It was determined that Indasea would build an application programming interface (API) to the CSM to enable query from remote locations, and would facilitate ORNL in its efforts to call to the API from the IBAC interface.

In the planning phase there were tasks and deliverables included that were subsequently determined by DTRA to be beyond the scope of the Phase I effort. These tasks were to be held in reserve to be executed in IBAC Phase II. The tasks were:

- Tailoring queries to the CSM that take into account the point of view (POV) and contextual vocabulary of the SMEs
- Requiring the SMEs to provide assessments on the scenario
- Integrating and visualizing the collection of assessments that are created by the SMEs in response to a given scenario. An assessment integration application was to be created for this purpose, although the possibility of using the CSM with an isolated integration control database was also explored in discussions with the NRL.

On the basis of this planning phase, IBAC Phase I commenced, with the main focus on creating the template, and establishing integration and connectivity of the a new IBAC interface to the CSM via a newly created CSM Query API.

Description of Work:

Initially, work consisted largely of information sharing efforts among the entities involved concerning the architecture and status of both the CSM and the existing version of the Rapid Human Assessment Information System (RHAIS), which was developed by ORNL as a way to build templates to aid information collection and facilitate preparation of threat assessments. The bulk of this discovery was done at a three day, exploratory conference held at the NRL facility in September 2006 attended by three IndaSea personnel.

A rough plan was devised collaboratively for integrating the technologies into an IBAC platform. In accordance with the plan, the work needed for Phase I would be as follows from IndaSea's perspective:

- A Request for Information (RFI) would be generated regarding a scenario of interest, and sent to SME's. The SMEs would use the RHAIS (sometimes called the IBAC interface) template to generate questions to the CSM Indonesia database.
- The CSM Cultural Construct database would be prepared in advance, in order to incorporate vocabulary and key terms used by SMEs. Examples of these terms were to be found in reports and assessments created by the SMEs at an earlier time and supplied to IndaSea. The purpose was to facilitate the expansion of queries that took into account the SME's point of view. The preparation was to be done using document analysis tools already incorporated in the CSM. As noted earlier, this work was later put on hold till Phase II.
- RHAIS would connect to the CSM Cultural Construct database through a CSM Query API. Queries to the CSM database would be expanded, using dictionaries in the CSM including SME vocabularies.
- Data from the CSM would be returned to the RHAIS interface using methods specified in the CSM QueryAPI.
- The SMEs would generate assessments.

- These would be sent to an Integration Engine, to produce an integrated assessment as the end product.
- The CSM would also receive copies of the assessments, which could be further used to build out and refine the SME POVs
- A new cycle of RFIs could then be generated.

An example scenario was created to be used as the content basis for experiments in IBAC Phase 1. IndaSea suggested the scenario include Jemaah Islamiyah and other Islamist groups. The SMEs then participated in phrasing the scenario. The scenario was “How do Islamist groups such as Jamaah Islamiyah affect the Indonesia government, Indonesian President Yudhoyono and Vice President Kalla?”

Following this period, Statements of Work (SOW) were generated based on the plan. IndaSea worked intensively with the NRL to derive the IndaSea SOW. Additionally, IndaSea performed exploratory experiments to deconstruct existing SME assessments.

A four-day working conference was hosted at the IndaSea facility in Hawaii starting on December 11, 2006, attended by representatives of DTRA, NRL, ORNL, and commercial entities IndaSea and Eigensoft. The main goals of the conference were to evolve and coordinate the plan for IBAC, to create a pseudo code draft of the CSM API, and to provide in-depth technology demonstrations of the CSM with Q&A. The deliverables for IBAC Phase I were redrafted to focus on the first software integration piece, the IBAC interface to the CSM via the CSM Query API. The group also spent time planning for future IBAC phases.

The IBAC architecture was diagrammed on white boards. IndaSea captured the white board information and prepared the schematic represented in Figure A-1, as shown below. Figure A-1 represents the architecture extended as a multi-year project executed by the Phase I participants. The top section of the chart shows a classified portion of the project added in Year 3 hosted by NRL. In keeping with the revised deliverables, other additions, such as the Analyst (or SME) POV and Actor POV are shown as additions to the architecture starting in Year 2. Integration reports, rather than the integration engine itself, are shown as the deliverable for Phase I.

Figure A-1: Integrated Behavioral Assessment Capability Multi-Year Architecture.

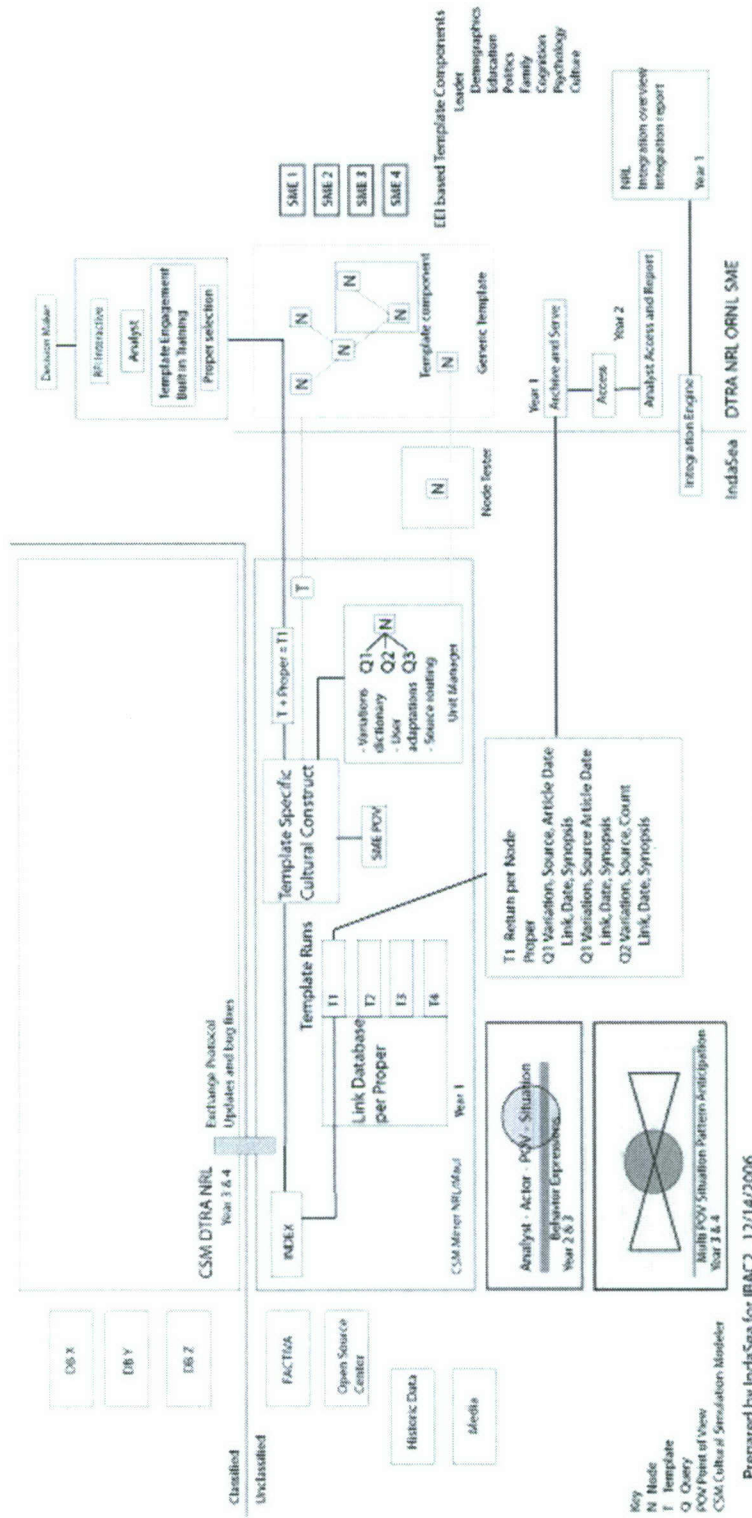


Figure A-1.

Status at the Close of the Planning Phase:

The planning phase was successful, and IBAC Phase1 began with all participants.

Other Consultative and advisory functions:

IndaSea consulted with NRL to create the best designs for technology integration and hardware configuration in order to install and run the as-is CSM at the NRL.

Technology assists and transitions anticipated as a result of the plan:

DTRA, working with IndaSea, NRL and ORNL will make use of methods used in Data Shaping in the Cultural Simulation Modeler (CSM) for Multiple Models for IBAC Phase I. It is anticipated that a classified version of the CSM will be installed at the NRL or another facility in future phases. It is anticipated that the IBAC platform will be transitioned for use in other government agencies during future research phases.

New inventions:

No new inventions or patent discoveries were made during the course of this work.

Appendix B: Formatted Template Questions

Key	Value	Key	Value	Key	Value
Country	Indonesia	Institution	Government	Conflict	Religious
Country	Indonesia	Institution	Government	Conflict	Separatist
Country	Indonesia	Institution	Government	Conflict	Anti-West Sentiment
Country	Indonesia	Institution	Government	Economy/Trade	Tourism
Country	Indonesia	Institution	Government	Economy/Trade	Disruption
Country	Indonesia	Institution	Government	Economy/Trade	Growth
Country	Indonesia	Institution	Government	Economy/Trade	Foreign Investments
Country	Indonesia	Institution	Government	Economy/Trade	Imports/Exports
Country	Indonesia	Institution	Government	Security	Maritime
Country	Indonesia	Institution	Government	Security	Foreign Investments
Country	Indonesia	Institution	Government	Security	Islamic Militias
Country	Indonesia	Institution	Government	Security	Defense Cooperation
Country	Indonesia	Institution	Government	Security	Counter-Terrorism
Country	Indonesia	Institution	Government	Security	Border
Country	Indonesia	Institution	Government	Security	Alliances
Country	Indonesia	Institution	Government	Foreign Policy	Relationship to West
Country	Indonesia	Institution	Government	Foreign Policy	Relationship to Muslim Countries
Country	Indonesia	Institution	Government	Foreign Policy	Support for GWOT
Country	Indonesia	Institution	Government	Education	Pesantren
Country	Indonesia	Institution	Government	Law	Religious Tolerance
Country	Indonesia	Institution	Government	Law	Sharia
Country	Indonesia	Institution	Government	Law	Jakarta Charter
Country	Indonesia	Institution	Government	Social Welfare	
Country	Indonesia	Institution	Government	Power	Balance between Muslim Factions
Country	Indonesia	Institution	Government	Power	Strength of Democracy
Country	Indonesia	Institution	Government	Terror	International Operatives
Country	Indonesia	Institution	Government	Terror	Training Camps
Country	Indonesia	Institution	Government	Terror	Jihad
Country	Indonesia	Institution	Government	Terror	Terror Attacks
Country	Indonesia	Individual	VP Kalla	Interest Groups	Political Parties
Country	Indonesia	Individual	VP Kalla	Interest Groups	Religious Organizations
Country	Indonesia	Individual	VP Kalla	Interest Groups	Moderate Muslims
Country	Indonesia	Individual	VP Kalla	Interest Groups	Islamists
Country	Indonesia	Individual	VP Kalla	Interest Groups	Christians
Country	Indonesia	Individual	VP Kalla	Interest Groups	Secular
Country	Indonesia	Individual	VP Kalla	Law	Religious Tolerance
Country	Indonesia	Individual	VP Kalla	Law	Sharia
Country	Indonesia	Individual	VP Kalla	Law	Jakarta Charter
Country	Indonesia	Individual	VP Kalla	Conflict	Religious
Country	Indonesia	Individual	VP Kalla	Conflict	Separatist
Country	Indonesia	Individual	VP Kalla	Conflict	Anti-West Sentiment
Country	Indonesia	Individual	VP Kalla	Power	Popularity
Country	Indonesia	Individual	VP Kalla	Power	Balance between Muslim Factions
Country	Indonesia	Individual	VP Kalla	Power	Political Party Balance
Country	Indonesia	Individual	VP Kalla	Economy/Trade	Tourism

Key	Value	Key	Value	Key	Value
Country	Indonesia	Individual	VP Kalla	Economy/Trade	Disruption
Country	Indonesia	Individual	VP Kalla	Economy/Trade	Growth
Country	Indonesia	Individual	VP Kalla	Economy/Trade	Foreign Investments
Country	Indonesia	Individual	VP Kalla	Economy/Trade	Imports/Exports
Country	Indonesia	Individual	VP Kalla	Security	Maritime
Country	Indonesia	Individual	VP Kalla	Security	Foreign Investments
Country	Indonesia	Individual	VP Kalla	Security	Counter-Terrorism
Country	Indonesia	Individual	VP Kalla	Security	Border
Country	Indonesia	Individual	VP Kalla	Security	Alliances
Country	Indonesia	Individual	VP Kalla	Security	Defense Cooperation
Country	Indonesia	Individual	VP Kalla	Security	Islamic Militias
Country	Indonesia	Individual	VP Kalla	Education	
Country	Indonesia	Individual	VP Kalla	Social Welfare	
Country	Indonesia	Individual	VP Kalla	Terror	International Operatives
Country	Indonesia	Individual	VP Kalla	Terror	Training Camps
Country	Indonesia	Individual	VP Kalla	Terror	Jihad
Country	Indonesia	Individual	VP Kalla	Terror	Terror Attacks
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Political Parties
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Religious Organizations
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Moderate Muslims
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Islamists
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Christians
Country	Indonesia	Individual	Pres. Yudhoyono	Interest Groups	Secular
Country	Indonesia	Individual	Pres. Yudhoyono	Law	Religious Tolerance
Country	Indonesia	Individual	Pres. Yudhoyono	Law	Sharia
Country	Indonesia	Individual	Pres. Yudhoyono	Law	Jakarta Charter
Country	Indonesia	Individual	Pres. Yudhoyono	Conflict	Religious
Country	Indonesia	Individual	Pres. Yudhoyono	Conflict	Separatist
Country	Indonesia	Individual	Pres. Yudhoyono	Conflict	Anti-West Sentiment
Country	Indonesia	Individual	Pres. Yudhoyono	Power	Popularity
Country	Indonesia	Individual	Pres. Yudhoyono	Power	Balance between Muslim Factions
Country	Indonesia	Individual	Pres. Yudhoyono	Power	Political Party Balance
Country	Indonesia	Individual	Pres. Yudhoyono	Economy/Trade	Tourism
Country	Indonesia	Individual	Pres. Yudhoyono	Economy/Trade	Disruption
Country	Indonesia	Individual	Pres. Yudhoyono	Economy/Trade	Growth
Country	Indonesia	Individual	Pres. Yudhoyono	Economy/Trade	Foreign Investments
Country	Indonesia	Individual	Pres. Yudhoyono	Economy/Trade	Imports/Exports
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Maritime
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Foreign Investments
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Counter-Terrorism
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Border
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Alliances
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Defense Cooperation
Country	Indonesia	Individual	Pres. Yudhoyono	Security	Islamic Militias
Country	Indonesia	Individual	Pres. Yudhoyono	Education	
Country	Indonesia	Individual	Pres. Yudhoyono	Social Welfare	
Country	Indonesia	Individual	Pres. Yudhoyono	Terror	International Operatives
Country	Indonesia	Individual	Pres. Yudhoyono	Terror	Training Camps

Key	Value	Key	Value	Key	Value
Country	Indonesia	Individual	Pres. Yudhoyono	Terror	Jihad
Country	Indonesia	Individual	Pres. Yudhoyono	Terror	Terror Attacks
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Religious Organizations
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Islamists
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Muslim Charities
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Criminal Organizations
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Islamist Parties
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Islamic Militias
Country	Indonesia	Group	Jemaah Islamiyah	Interest Groups	Muslims involved in communal conflict
Country	Indonesia	Group	Jemaah Islamiyah	Mission	Islamic State
Country	Indonesia	Group	Jemaah Islamiyah	Mission	Sharia
Country	Indonesia	Group	Jemaah Islamiyah	Mission	Proselytizing/Dakwah
Country	Indonesia	Group	Jemaah Islamiyah	Mission	Recruitment
Country	Indonesia	Group	Jemaah Islamiyah	Education	Pesantren/madrassa
Country	Indonesia	Group	Jemaah Islamiyah	Power	Political
Country	Indonesia	Group	Jemaah Islamiyah	Power	Popular Support
Country	Indonesia	Group	Jemaah Islamiyah	Power	Religious
Country	Indonesia	Group	Jemaah Islamiyah	Jihad	Anti-Government
Country	Indonesia	Group	Jemaah Islamiyah	Jihad	Anti-Western
Country	Indonesia	Group	Jemaah Islamiyah	Jihad	Anti-Christian
Country	Indonesia	Group	Islamist	Interest Groups	Religious Organizations
Country	Indonesia	Group	Islamist	Interest Groups	Islamists
Country	Indonesia	Group	Islamist	Interest Groups	Muslim Charities
Country	Indonesia	Group	Islamist	Interest Groups	Criminal Organizations
Country	Indonesia	Group	Islamist	Interest Groups	Islamist Parties
Country	Indonesia	Group	Islamist	Interest Groups	Islamic Militias
Country	Indonesia	Group	Islamist	Interest Groups	Muslims involved in communal conflict
Country	Indonesia	Group	Islamist	Mission	Islamic State
Country	Indonesia	Group	Islamist	Mission	Sharia
Country	Indonesia	Group	Islamist	Mission	Proselytizing/Dakwah
Country	Indonesia	Group	Islamist	Mission	Recruitment
Country	Indonesia	Group	Islamist	Education	Pesantren/madrassa
Country	Indonesia	Group	Islamist	Power	Political
Country	Indonesia	Group	Islamist	Power	Popular Support
Country	Indonesia	Group	Islamist	Power	Religious
Country	Indonesia	Group	Islamist	Jihad	Anti-Government
Country	Indonesia	Group	Islamist	Jihad	Anti-Western
Country	Indonesia	Group	Islamist	Jihad	Anti-Christian

All Classes[CSMCommand](#)[CSMCommandAPI](#)[CSMGetArticle](#)[CSMGetTemplateQuestion](#)[CSMGetTextQuery](#)[CSMGetUser](#)[CSMReturn](#)[CSMUser](#)[CSMWait](#)[CSMWordQuery](#)[ICSMCommandAPI](#)[TestCSMCommandAPI](#)**[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)**[PREV PACKAGE](#) [NEXT PACKAGE](#)[FRAMES](#) [NO FRAMES](#)**Package csmdk.api.query****Interface Summary**

ICSMCommandAPI	
--------------------------------	--

Class Summary

CSMCommand	
CSMCommandAPI	
CSMGetArticle	
CSMGetTemplateQuestion	
CSMGetTextQuery	
CSMGetUser	
CSMReturn	
CSMUser	
CSMWait	
CSMWordQuery	
TestCSMCommandAPI	

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[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

csmdk.api.query

Class CSMCommand

java.lang.Object

└ `csmdk.api.query.CSMCommand`

Direct Known Subclasses:

[CSMGetArticle](#), [CSMGetTemplateQuestion](#), [CSMGetTextQuery](#), [CSMGetUser](#),
[CSMWordQuery](#)public class **CSMCommand**

extends java.lang.Object

Field Summary

java. lang. Object	<u>invokeLock</u>
--------------------------	-----------------------------------

Constructor Summary

[CSMCommand](#)([CSMUser](#) _user, java.lang.String _commandName)

Method Summary

boolean	<u>add</u> (java.lang.Object _add)
---------	--

void	<u>args</u> (adk.interfaces.IFiler _f)
void	<u>begin</u> (adk.interfaces.IWait _, adk.interfaces.IFiler _io)
void	<u>done</u> ()
java. lang. Object	<u>getHashObject</u> ()
<u>CSMUser</u>	<u>getUser</u> ()
void	<u>save</u> (adk.interfaces.IFiler _f, java.lang. String _hostAddress, int _port)
void	<u>setReturn</u> (CSMReturn __return)
java. lang. String	<u>toString</u> ()

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

invokeLock

public final java.lang.Object **invokeLock**

Constructor Detail

CSMCommand

```
public CSMCommand(CSMUser _user,  
                  java.lang.String _commandName)
```

Method Detail

getHashObject

```
public java.lang.Object getHashObject()
```

args

```
public void args(adk.interfaces.IFiler _f)  
    throws java.lang.Exception
```

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,  
                  adk.interfaces.IFiler _io)  
    throws java.lang.Throwable
```

Throws:

java.lang.Throwable

add

```
public boolean add(java.lang.Object _add)
```

done

```
public void done()
```

setReturn

```
public void setReturn(CSMReturn __return)
```

getUser

```
public CSMUser getUser()
```

save

```
public final void save(adk.interfaces.IFiler _f,  
                        java.lang.String _hostAddress,  
                        int _port)  
    throws java.lang.Exception
```

Throws:

java.lang.Exception

toString

```
public java.lang.String toString()
```

Overrides:

toString in class java.lang.Object

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SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

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DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

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<u>ICSMCommandAPI</u>	
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Class Summary

<u>CSMCommand</u>	
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<u>CSMCommandAPI</u>	
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<u>CSMGetArticle</u>	
----------------------	--

<u>CSMGetTemplateQuestion</u>	
-------------------------------	--

<u>CSMGetTextQuery</u>	
------------------------	--

<u>CSMGetUser</u>	
-------------------	--

<u>CSMReturn</u>	
------------------	--

<u>CSMUser</u>	
----------------	--

<u>CSMWait</u>	
----------------	--

<u>CSMWordQuery</u>	
---------------------	--

<u>TestCSMCommandAPI</u>	
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Hierarchy For Package csmdk.api.query

Class Hierarchy

- java.lang.Object
 - adk.lang.ASetObject
 - csmdk.api.query.[CSMUser](#)
 - csmdk.api.query.[CSMCommand](#)
 - csmdk.api.query.[CSMGetArticle](#)
 - csmdk.api.query.[CSMGetTemplateQuestion](#)
 - csmdk.api.query.[CSMGetTextQuery](#)
 - csmdk.api.query.[CSMGetUser](#)
 - csmdk.api.query.[CSMWordQuery](#)
 - csmdk.api.query.[CSMCommandAPI](#) (implements csmdk.api.query.[ICSMCommandAPI](#))
 - csmdk.api.query.[CSMReturn](#)
 - csmdk.api.query.[CSMWait](#) (implements adk.interfaces.IWait)
 - csmdk.api.query.[TestCSMCommandAPI](#)

Interface Hierarchy

- csmdk.api.query.[ICSMCommandAPI](#)

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A

[add\(Object\)](#) - Method in class csmdk.api.query.[CSMCommand](#)

[add\(CSMCommand, Object\)](#) - Method in class csmdk.api.query.[CSMReturn](#)

[andExclude](#) - Variable in class csmdk.api.query.[CSMWordQuery](#)

[andInclude](#) - Variable in class csmdk.api.query.[CSMWordQuery](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMCommand](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMGetArticle](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMGetTemplateQuestion](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMGetTextQuery](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMGetUser](#)

[args\(IFiler\)](#) - Method in class csmdk.api.query.[CSMWordQuery](#)

B

[begin\(IWait, IFiler\)](#) - Method in class csmdk.api.query.[CSMCommand](#)

[begin\(IWait, IFiler\)](#) - Method in class csmdk.api.query.[CSMGetArticle](#)

[begin\(IWait, IFiler\)](#) - Method in class csmdk.api.query.[CSMGetTemplateQuestion](#)

[begin\(IWait, IFiler\)](#) - Method in class csmdk.api.query.[CSMGetTextQuery](#)

begin(IWait, IFiler) - Method in class `csmdk.api.query.CSMGetUser`

begin() - Method in class `csmdk.api.query.CSMReturn`

begin(IWait, IFiler) - Method in class `csmdk.api.query.CSMWordQuery`

C

close() - Method in class `csmdk.api.query.CSMCommandAPI`

close() - Method in interface `csmdk.api.query.ICSMCommandAPI`

createQuestionIfNotFound - Variable in class `csmdk.api.query.CSMGetTemplateQuestion`

createTemplateIfNotFound - Variable in class `csmdk.api.query.CSMGetTemplateQuestion`

CSMCommand - Class in `csmdk.api.query`

CSMCommand(CSMUser, String) - Constructor for class `csmdk.api.query.CSMCommand`

CSMCommandAPI - Class in `csmdk.api.query`

csmdk.api.query - package `csmdk.api.query`

CSMGetArticle - Class in `csmdk.api.query`

CSMGetArticle(CSMUser, long, long, String, String) - Constructor for class `csmdk.api.query.CSMGetArticle`

CSMGetTemplateQuestion - Class in `csmdk.api.query`

CSMGetTemplateQuestion(CSMUser, String[], boolean, String[], boolean) - Constructor for class `csmdk.api.query.CSMGetTemplateQuestion`

CSMGetTextQuery - Class in `csmdk.api.query`

CSMGetTextQuery(CSMUser, long, long, String) - Constructor for class `csmdk.api.query`.

CSMGetTextQuery

CSMGetUser - Class in `csmdk.api.query`

CSMGetUser(String) - Constructor for class `csmdk.api.query.CSMGetUser`

CSMReturn - Class in `csmdk.api.query`

CSMReturn() - Constructor for class `csmdk.api.query.CSMReturn`

CSMUser - Class in `csmdk.api.query`

CSMUser(long, String) - Constructor for class `csmdk.api.query.CSMUser`

CSMWait - Class in `csmdk.api.query`

CSMWait() - Constructor for class `csmdk.api.query.CSMWait`

CSMWordQuery - Class in `csmdk.api.query`

CSMWordQuery(CSMUser, String[], String[], String[]) - Constructor for class `csmdk.api.query`.

CSMWordQuery

D

done() - Method in class `csmdk.api.query.CSMCommand`

done() - Method in class `csmdk.api.query.CSMReturn`

E

enqueueCommand(IWait, CSMCommand, boolean) - Method in class `csmdk.api.query`.

CSMCommandAPI

enqueueCommand(IWait, CSMCommand, boolean) - Method in interface csmdk.api.query.ICSMCommandAPI

exception(Throwable) - Method in class csmdk.api.query.CSMWait

G

getAll() - Method in class csmdk.api.query.CSMReturn

getAndExclude() - Method in class csmdk.api.query.CSMWordQuery

getAndInclude() - Method in class csmdk.api.query.CSMWordQuery

getArticleReturn(IWait) - Static method in class csmdk.api.query.TestCSMCommandAPI

getDate() - Method in class csmdk.api.query.CSMGetArticle

getDate() - Method in class csmdk.api.query.CSMGetTextQuery

getDescription() - Method in class csmdk.api.query.CSMGetArticle

getDescription() - Method in class csmdk.api.query.CSMGetTextQuery

getHashObject() - Method in class csmdk.api.query.CSMCommand

getHashObject() - Method in class csmdk.api.query.CSMGetArticle

getHashObject() - Method in class csmdk.api.query.CSMGetTemplateQuestion

getHashObject() - Method in class csmdk.api.query.CSMGetTextQuery

getHashObject() - Method in class csmdk.api.query.CSMGetUser

getHashObject() - Method in class csmdk.api.query.CSMWordQuery

getOrExclude() - Method in class csmdk.api.query.CSMWordQuery

getRegexPatterns() - Method in class csmdk.api.query.CSMGetArticle

getTemplateQuestionReturn(IWait, CSMCommandAPI) - Static method in class csmdk.api.query.TestCSMCommandAPI

getUser() - Method in class csmdk.api.query.CSMCommand

getUserName() - Method in class csmdk.api.query.CSMGetUser

getUserName() - Method in class csmdk.api.query.CSMUser

getUserReturn(IWait) - Static method in class csmdk.api.query.TestCSMCommandAPI

H

hashObject() - Method in class csmdk.api.query.CSMUser

hide() - Method in class csmdk.api.query.CSMWait

I

ICSMCommandAPI - Interface in csmdk.api.query

invokeLock - Variable in class csmdk.api.query.CSMCommand

L

log(Object) - Method in class csmdk.api.query.CSMWait

M

main(String[]) - Static method in class csmdk.api.query.TestCSMCommandAPI

O

open(int, String, int) - Static method in class csmdk.api.query.CSMCommandAPI

open(IWait) - Method in class csmdk.api.query.CSMCommandAPI

open(IWait) - Method in interface csmdk.api.query.ICSMCommandAPI

orExclude - Variable in class csmdk.api.query.CSMWordQuery

out(Object) - Method in class csmdk.api.query.CSMWait

out(Object, Object) - Method in class csmdk.api.query.CSMWait

P

popProgress() - Method in class csmdk.api.query.CSMWait

progress(double, double) - Method in class csmdk.api.query.CSMWait

pushProgress() - Method in class csmdk.api.query.CSMWait

Q

questionPath - Variable in class `csmdk.api.query.CSMGetTemplateQuestion`

S

save(IFiler, String, int) - Method in class `csmdk.api.query.CSMCommand`

save(IFiler) - Method in class `csmdk.api.query.CSMUser`

setReturn(CSMReturn) - Method in class `csmdk.api.query.CSMCommand`

show() - Method in class `csmdk.api.query.CSMWait`

showNow() - Method in class `csmdk.api.query.CSMWait`

status(Object, double, double) - Method in class `csmdk.api.query.CSMWait`

stop() - Method in class `csmdk.api.query.CSMWait`

suspend() - Method in class `csmdk.api.query.CSMWait`

T

templatePath - Variable in class `csmdk.api.query.CSMGetTemplateQuestion`

TestCSMCommandAPI - Class in `csmdk.api.query`

TestCSMCommandAPI() - Constructor for class `csmdk.api.query.TestCSMCommandAPI`

toString() - Method in class `csmdk.api.query.CSMCommand`

toString() - Method in class `csmdk.api.query.CSMGetArticle`

toString() - Method in class `csmdk.api.query.CSMGetTextQuery`

U

[userID\(\)](#) - Method in class csmdk.api.query.[CSMUser](#)

[userName](#) - Variable in class csmdk.api.query.[CSMGetUser](#)

W

[wordQueryReturn\(IWait, CSMCommandAPI, int\)](#) - Static method in class csmdk.api.query.[TestCSMCommandAPI](#)

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How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain four categories:

- Interfaces (*italic*)
- Classes
- Enums
- Exceptions
- Errors
- Annotation Types

Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class inheritance diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class/interface declaration
- Class/interface description
- Nested Class Summary
- Field Summary
- Constructor Summary
- Method Summary
- Field Detail

- Constructor Detail
- Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Annotation Type

Each annotation type has its own separate page with the following sections:

- Annotation Type declaration
- Annotation Type description
- Required Element Summary
- Optional Element Summary
- Element Detail

Enum

Each enum has its own separate page with the following sections:

- Enum declaration
- Enum description
- Enum Constant Summary
- Enum Constant Detail

Tree (Class Hierarchy)

There is a [Class Hierarchy](#) page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with `java.lang.Object`. The interfaces do not inherit from `java.lang.Object`.

- When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

Deprecated API

The [Deprecated API](#) page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

Index

The [Index](#) contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

Prev/Next

These links take you to the next or previous class, interface, package, or related page.

Frames/No Frames

These links show and hide the HTML frames. All pages are available with or without frames.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

Constant Field Values

The [Constant Field Values](#) page lists the static final fields and their values.

This help file applies to API documentation generated using the standard doclet.

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All Classes

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csmdk.api.query

Class CSMCommandAPI

java.lang.Object

└ [csmdk.api.query.CSMCommandAPI](#)

All Implemented Interfaces:

[ICSMCommandAPI](#)public class **CSMCommandAPI**

extends java.lang.Object

implements [ICSMCommandAPI](#)

Method Summary

void	close()
void	enqueueCommand (adk.interfaces.IWait _ , CSMCommand _command , boolean _blocking)
static CSMCommandAPI	open (int _apiServerPort , java.lang. String _csmHost , int _csmPort)
void	open (adk.interfaces.IWait _)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

open

```
public static CSMCommandAPI open(int _apiServerPort,  
                                   java.lang.String _csmHost,  
                                   int _csmPort)
```

open

```
public void open(adk.interfaces.IWait _)  
    throws java.lang.Exception
```

Specified by:

open in interface ICSMCommandAPI

Throws:

java.lang.Exception

close

```
public void close()
```

Specified by:

close in interface ICSMCommandAPI

enqueueCommand

```
public void enqueueCommand(adk.interfaces.IWait _,  
                             CSMCommand _command,
```


boolean _blocking)

Specified by:

enqueueCommand in interface ICSMCommandAPI

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csmdk.api.query

Class CSMGetArticle

java.lang.Object

└ [csmdk.api.query.CSMCommand](#)└ **csmdk.api.query.CSMGetArticle**public class **CSMGetArticle**extends [CSMCommand](#)

Field Summary

Fields inherited from class [csmdk.api.query.CSMCommand](#)

[invokeLock](#)

Constructor Summary

[CSMGetArticle](#)([CSMUser](#) _user, long _id, long _date, java.lang.String _regexPatterns, java.lang.String _description)

Method Summary

void [args](#)(adk.interfaces.IFiler _f)

void	<u>begin</u> (adk.interfaces.IWait _, adk.interfaces.IFiler _io)
long	<u>getDate</u> ()
java. lang. String	<u>getDescription</u> ()
java. lang. Object	<u>getHashObject</u> ()
java. lang. String	<u>getRegexPatterns</u> ()
java. lang. String	<u>toString</u> ()

Methods inherited from class csmdk.api.query.CSMCommand

add, done, getUser, save, setReturn

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

CSMGetArticle

```
public CSMGetArticle(CSMUser _user,
                    long _id,
                    long _date,
                    java.lang.String _regexPatterns,
                    java.lang.String _description)
```

Method Detail

getHashObject

```
public java.lang.Object getHashObject()
```

Overrides:

getHashObject in class CSMCommand

args

```
public void args(adk.interfaces.IFiler _f)  
    throws java.lang.Exception
```

Overrides:

args in class CSMCommand

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,  
    adk.interfaces.IFiler _io)  
    throws java.lang.Throwable
```

Overrides:

begin in class CSMCommand

Throws:

java.lang.Throwable

getDate

```
public long getDate()
```

getRegexPatterns

```
public java.lang.String getRegexPatterns()
```

getDescription

```
public java.lang.String getDescription()
```

toString

```
public java.lang.String toString()
```

Overrides:

[toString](#) in class [CSMCommand](#)

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csmdk.api.query

Class CSMGetTemplateQuestion

java.lang.Object

└ [csmdk.api.query.CSMCommand](#)└ **csmdk.api.query.CSMGetTemplateQuestion**

public class CSMGetTemplateQuestion

extends [CSMCommand](#)

Field Summary

protected boolean	<u>createQuestionIfNotFound</u>
protected boolean	<u>createTemplateIfNotFound</u>
protected java. lang. String[]	<u>questionPath</u>
protected java. lang. String[]	<u>templatePath</u>

Fields inherited from class [csmdk.api.query.CSMCommand](#)

[invokeLock](#)

Constructor Summary

CSMGetTemplateQuestion(CSMUser _user, java.lang.String
[] _templatePath, boolean _createTemplateIfNotFound, java.lang.String
[] _questionPath, boolean _createQuestionIfNotFound)

Method Summary

void **args**(adk.interfaces.IFiler _f)

void **begin**(adk.interfaces.IWait _, adk.interfaces.IFiler _io)

java.
lang.
Object **getHashObject**()

Methods inherited from class csmdk.api.query.CSMCommand

add, done, getUser, save, setReturn, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
wait, wait, wait

Field Detail

templatePath

protected java.lang.String[] **templatePath**

createTemplateIfNotFound

protected boolean **createTemplateIfNotFound**

questionPath

protected java.lang.String[] **questionPath**

createQuestionIfNotFound

protected boolean **createQuestionIfNotFound**

Constructor Detail

CSMGetTemplateQuestion

```
public CSMGetTemplateQuestion(CSMUser _user,  
                             java.lang.String[] _templatePath,  
                             boolean _createTemplateIfNotFound,  
                             java.lang.String[] _questionPath,  
                             boolean _createQuestionIfNotFound)
```

Method Detail

getHashObject

```
public java.lang.Object getHashObject()
```

Overrides:

getHashObject in class CSMCommand

args

```
public void args(adk.interfaces.IFiler _f)  
    throws java.lang.Exception
```

Overrides:

args in class CSMCommand

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,
                  adk.interfaces.IFiler _io)
    throws java.lang.Throwable
```

Overrides:

begin in class CSMCommand

Throws:

java.lang.Throwable

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csmdk.api.query

Class CSMGetTextQuery

java.lang.Object

└ [csmdk.api.query.CSMCommand](#)└ [csmdk.api.query.CSMGetTextQuery](#)

```
public class CSMGetTextQuery
```

```
extends CSMCommand
```

Field Summary

Fields inherited from class [csmdk.api.query.CSMCommand](#)

[invokeLock](#)

Constructor Summary

```
CSMGetTextQuery(CSMUser _user, long _id, long _date, java.lang.  
String _description)
```

Method Summary

```
void args(adk.interfaces.IFiler _f)
```

void	<u>begin</u> (adk.interfaces.IWait __, adk.interfaces.IFiler _io)
long	<u>getDate</u> ()
java. lang. String	<u>getDescription</u> ()
java. lang. Object	<u>getHashObject</u> ()
java. lang. String	<u>toString</u> ()

Methods inherited from class csmdk.api.query.CSMCommand

add, done, getUser, save, setReturn

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

CSMGetTextQuery

```
public CSMGetTextQuery(CSMUser _user,
                       long _id,
                       long _date,
                       java.lang.String _description)
```

Method Detail

getHashObject

```
public java.lang.Object getHashObject()
```


Overrides:

getHashObject in class CSMCommand

args

```
public void args(adk.interfaces.IFiler _f)
    throws java.lang.Exception
```

Overrides:

args in class CSMCommand

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,
    adk.interfaces.IFiler _io)
    throws java.lang.Throwable
```

Overrides:

begin in class CSMCommand

Throws:

java.lang.Throwable

getDate

```
public long getDate()
```

getDescription

```
public java.lang.String getDescription()
```


toString

```
public java.lang.String toString()
```

Overrides:

[toString](#) in class [CSMCommand](#)

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csmdk.api.query

Class CSMGetUser

java.lang.Object

└ [csmdk.api.query.CSMCommand](#)└ **csmdk.api.query.CSMGetUser**public class **CSMGetUser**extends [CSMCommand](#)

Field Summary

protected	
java.	userName
lang.	
String	

Fields inherited from class csmdk.api.query.[CSMCommand](#)

[invokeLock](#)

Constructor Summary

[CSMGetUser](#)(java.lang.String _userName)

Method Summary

void	<u>args</u> (adk.interfaces.IFiler _f)
void	<u>begin</u> (adk.interfaces.IWait _, adk.interfaces.IFiler _io)
java. lang. Object	<u>getHashObject</u> ()
java. lang. String	<u>getUserName</u> ()

Methods inherited from class csmdk.api.query.CSMCommand

add, done, getUser, save, setReturn, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

userName

protected java.lang.String **userName**

Constructor Detail

CSMGetUser

public **CSMGetUser** (java.lang.String _userName)

Method Detail

getHashObject


```
public java.lang.Object getHashObject()
```

Overrides:

[getHashObject](#) in class [CSMCommand](#)

args

```
public void args(adk.interfaces.IFiler _f)  
    throws java.lang.Exception
```

Overrides:

[args](#) in class [CSMCommand](#)

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,  
                 adk.interfaces.IFiler _io)  
    throws java.lang.Throwable
```

Overrides:

[begin](#) in class [CSMCommand](#)

Throws:

java.lang.Throwable

getUserName

```
public java.lang.String getUserName()
```

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csmdk.api.query

Class CSMReturn

java.lang.Object

└─ csmdk.api.query.CSMReturn

public class CSMReturn

extends java.lang.Object

Constructor Summary

CSMReturn ()

Method Summary

boolean	<u>add</u> (CSMCommand _command, java.lang.Object _add)
void	<u>begin</u> ()
void	<u>done</u> ()
java. lang. Object	<u>getAll</u> ()

Methods inherited from class java.lang.Object


```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,  
toString, wait, wait, wait
```

Constructor Detail

CSMReturn

```
public CSMReturn()
```

Method Detail

begin

```
public void begin()
```

add

```
public boolean add(CSMCommand _command,  
                  java.lang.Object _add)
```

done

```
public void done()
```

getAll

```
public java.lang.Object getAll()
```

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csmdk.api.query

Class CSMUser

java.lang.Object

└─ adk.lang.ASetObject

└─ **csmdk.api.query.CSMUser**

```
public class CSMUser
```

```
extends adk.lang.ASetObject
```

Constructor Summary

protected	<u>CSMUser</u> (long _id, java.lang.String _userName)
-----------	--

Method Summary

java. lang. String	<u>getUserName</u> ()
--------------------------	------------------------------

java. lang. Object	<u>hashObject</u> ()
--------------------------	-----------------------------

void	<u>save</u> (adk.interfaces.IFiler _f)
------	---

long	<u>userID</u> ()
------	-------------------------

Methods inherited from class adk.lang.ASetObject

`equals`, `hashCode`, `toString`

Methods inherited from class java.lang.Object

`clone`, `finalize`, `getClass`, `notify`, `notifyAll`, `wait`, `wait`, `wait`

Constructor Detail**CSMUser**

```
protected CSMUser(long _id,  
                  java.lang.String _userName)
```

Method Detail**userID**

```
public long userID()
```

hashObject

```
public final java.lang.Object hashObject()
```

Specified by:

`hashObject` in class `adk.lang.ASetObject`

save

```
public void save(adk.interfaces.IFiler _f)  
    throws java.lang.Exception
```

Throws:

java.lang.Exception

getUserName

```
public java.lang.String getUserName()
```

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csmdk.api.query

Class CSMWait

java.lang.Object

└─ csmdk.api.query.CSMWait

All Implemented Interfaces:

adk.interfaces.IWait

public class CSMWait

extends java.lang.Object

implements adk.interfaces.IWait

Constructor Summary

[CSMWait\(\)](#)

Method Summary

void [exception](#)(java.lang.Throwable _t)void [hide](#)()void [log](#)(java.lang.Object _l)void [out](#)(java.lang.Object _value)

void	<u>out</u> (java.lang.Object _value, java.lang.Object _key)
void	<u>popProgress</u> ()
void	<u>progress</u> (double _count, double _outof)
void	<u>pushProgress</u> ()
void	<u>show</u> ()
void	<u>showNow</u> ()
boolean	<u>status</u> (java.lang.Object _status, double _count, double _outof)
boolean	<u>stop</u> ()
void	<u>suspend</u> ()

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

CSMWait

```
public CSMWait()
```

Method Detail

show

public void **show**()

Specified by:

show in interface `adk.interfaces.IWait`

showNow

public void **showNow**()

Specified by:

showNow in interface `adk.interfaces.IWait`

hide

public void **hide**()

Specified by:

hide in interface `adk.interfaces.IWait`

status

```
public boolean status(java.lang.Object _status,  
                      double _count,  
                      double _outof)
```

Specified by:

status in interface `adk.interfaces.IWait`

progress

```
public void progress(double _count,
```

double _outof)

Specified by:

progress in interface `adk.interfaces.IWait`

pushProgress

public void **pushProgress**()

Specified by:

pushProgress in interface `adk.interfaces.IWait`

popProgress

public void **popProgress**()

Specified by:

popProgress in interface `adk.interfaces.IWait`

out

public void **out**(java.lang.Object _value)

Specified by:

out in interface `adk.interfaces.IWait`

out

public void **out**(java.lang.Object _value,
java.lang.Object _key)

Specified by:

out in interface `adk.interfaces.IWait`

log

```
public void log(java.lang.Object _l)
```

Specified by:

log in interface `adk.interfaces.IWait`

exception

```
public void exception(java.lang.Throwable _t)
```

Specified by:

exception in interface `adk.interfaces.IWait`

stop

```
public boolean stop()
```

Specified by:

stop in interface `adk.interfaces.IWait`

suspend

```
public void suspend()
```

Specified by:

suspend in interface `adk.interfaces.IWait`

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csmdk.api.query

Class CSMWordQuery

java.lang.Object

└ [csmdk.api.query.CSMCommand](#)└ [csmdk.api.query.CSMWordQuery](#)public class **CSMWordQuery**extends [CSMCommand](#)

Field Summary

protected java. lang. String[]	andExclude
---	----------------------------

protected java. lang. String[]	andInclude
---	----------------------------

protected java. lang. String[]	orExclude
---	---------------------------

Fields inherited from class [csmdk.api.query.CSMCommand](#)

[invokeLock](#)

Constructor Summary

CSMWordQuery(CSMUser _user, java.lang.String[] _andInclude, java.lang.String[] _andExclude, java.lang.String[] _orExclude)

Method Summary

void	<u>args</u> (adk.interfaces.IFiler _f)
void	<u>begin</u> (adk.interfaces.IWait _, adk.interfaces.IFiler _io)
java. lang. String []	<u>getAndExclude</u> ()
java. lang. String []	<u>getAndInclude</u> ()
java. lang. Object	<u>getHashObject</u> ()
java. lang. String []	<u>getOrExclude</u> ()

Methods inherited from class csmdk.api.query.CSMCommand

add, done, getUser, save, setReturn, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

andInclude

```
protected java.lang.String[] andInclude
```

andExclude

```
protected java.lang.String[] andExclude
```

orExclude

```
protected java.lang.String[] orExclude
```

Constructor Detail

CSMWordQuery

```
public CSMWordQuery(CSMUser _user,  
                    java.lang.String[] _andInclude,  
                    java.lang.String[] _andExclude,  
                    java.lang.String[] _orExclude)
```

Method Detail

getHashObject

```
public java.lang.Object getHashObject()
```

Overrides:

getHashObject in class CSMCommand

args

```
public void args(adk.interfaces.IFiler _f)
    throws java.lang.Exception
```

Overrides:

args in class CSMCommand

Throws:

java.lang.Exception

begin

```
public void begin(adk.interfaces.IWait _,
    adk.interfaces.IFiler _io)
    throws java.lang.Throwable
```

Overrides:

begin in class CSMCommand

Throws:

java.lang.Throwable

getAndInclude

```
public java.lang.String[] getAndInclude()
```

getAndExclude

```
public java.lang.String[] getAndExclude()
```

getOrExclude

```
public java.lang.String[] getOrExclude()
```

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csmdk.api.query

Interface ICSMCommandAPI

All Known Implementing Classes:

[CSMCommandAPI](#)

```
public interface ICSMCommandAPI
```

Method Summary

void	close ()
void	enqueueCommand (adk.interfaces.IWait __, CSMCommand __command, boolean __blocking)
void	open (adk.interfaces.IWait __)

Method Detail

open

```
void open(adk.interfaces.IWait __)  
    throws java.lang.Exception
```

Throws:

```
java.lang.Exception
```

close

```
void close()
```

enqueueCommand

```
void enqueueCommand(adk.interfaces.IWait _,
                    CSMCommand _command,
                    boolean _blocking)
```

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csmdk.api.query

Class TestCSMCommandAPI

java.lang.Object

└─ csmdk.api.query.TestCSMCommandAPI

public class TestCSMCommandAPI

extends java.lang.Object

Constructor Summary

[TestCSMCommandAPI\(\)](#)

Method Summary

static [CSMReturn](#) [getArticleReturn](#)(adk.interfaces.IWait _)static [CSMReturn](#) [getTemplateQuestionReturn](#)(adk.interfaces.IWait _,
[CSMCommandAPI](#) _api)static [CSMReturn](#) [getUserReturn](#)(adk.interfaces.IWait _)static void [main](#)(java.lang.String[] _args)

<code>static <u>CSMReturn</u></code>	<code>wordQueryReturn(adk.interfaces.IWait _, <u>CSMCommandAPI</u> _api, int _stopAfter)</code>
--------------------------------------	--

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

TestCSMCommandAPI

```
public TestCSMCommandAPI()
```

Method Detail

main

```
public static void main(java.lang.String[] _args)
```

getUserReturn

```
public static CSMReturn getUserReturn(adk.interfaces.IWait _)
```

getTemplateQuestionReturn

```
public static CSMReturn getTemplateQuestionReturn(adk.interfaces.  
IWait _,  
CSMCommandAPI _api)
```

wordQueryReturn

```
public static CSMReturn wordQueryReturn(adk.interfaces.IWait _,  
                                         CSMCommandAPI _api,  
                                         int _stopAfter)
```

getArticleReturn

```
public static CSMReturn getArticleReturn(adk.interfaces.IWait _)
```

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Hierarchy For All Packages

Package Hierarchies:

[csmdk.api.query](#)

Class Hierarchy

- java.lang.Object
 - adk.lang.ASetObject
 - csmdk.api.query.[CSMUser](#)
 - csmdk.api.query.[CSMCommand](#)
 - csmdk.api.query.[CSMGetArticle](#)
 - csmdk.api.query.[CSMGetTemplateQuestion](#)
 - csmdk.api.query.[CSMGetTextQuery](#)
 - csmdk.api.query.[CSMGetUser](#)
 - csmdk.api.query.[CSMWordQuery](#)
 - csmdk.api.query.[CSMCommandAPI](#) (implements csmdk.api.query.[ICSMCommandAPI](#))
 - csmdk.api.query.[CSMReturn](#)
 - csmdk.api.query.[CSMWait](#) (implements adk.interfaces.IWait)
 - csmdk.api.query.[TestCSMCommandAPI](#)

Interface Hierarchy

- csmdk.api.query.[ICSMCommandAPI](#)

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Appendix C.2:Example-Test CSM Command API.java

```
package csmdk.api.query;
//-----
import adk.net.p2p.*;
import adk.io.UIO;
import adk.io.ByteFiler;
import adk.interfaces.IFiler;
import adk.interfaces.IWait;
import adk.data.IBA;
import adk.data.KeyedSet;
import adk.data.HashSet;
import adk.data.HashTable;
import adk.util.SysHead;
import java.lang.Object;
import java.util.regex.*;
import java.util.Locale;
import java.util.TimeZone;
import java.util.Date;
import java.util.StringTokenizer;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.text.ParsePosition;
//-----
public class TestCSMCommandAPI {
    //-----
    public static void main(final String[] _args) {
        final String localAPIPort = _args[0];
        // Address of Firewall
        final String publicIPAddress = _args[1];
        // Address of CSM
        final String csmIPAddress = _args[2];
        // User Name
        final String userName = _args[3];

        new Thread() { public void run() {
            ServerPort.publicHostAddress(publicIPAddress);
            final IWait _ = new CSMWait() {
                public void log(Object _l) {}
                public void out(Object _value) {}
                public void out(Object _value, Object _key) {}
            };

            final CSMCommandAPI api =
CSMCommandAPI.open(Integer.parseInt(localAPIPort), csmIPAddress, 1001);
            try {

                api.open(_);

                // Have to get a CSMUser instance inorder to invoke any
of the command

                CSMReturn getUserReturn = getUserReturn(_);

```



```

        CSMGetUser cgu = new CSMGetUser(userName);
        cgu.setReturn(getUserReturn);
        api.enqueueCommand(_, cgu, true);
        CSMUser user = (CSMUser)getUserReturn.getAll();

        // Example of how to access the queries for a template
question
        CSMCommand getTemplateQuestion = new
CSMGetTemplateQuestion(
            user,
            new
String[]{"JI", "and", "Islamist", "influence", "on", "Indonesian", "Government", "and",
"its", "leaders"}, false,
            new
String[]{"Country", "Indonesia", "Institution", "Government", "Economy", "Trade", "Dis
ruption"}, false
        );

        getTemplateQuestion.setReturn(getTemplateQuestionReturn(_, api));
        api.enqueueCommand(_, getTemplateQuestion, false);

        // Example of how to construct a free form query
        CSMReturn getUserReturn2 = getUserReturn(_);
        CSMGetUser cgu2 = new CSMGetUser("FreeForm");
        cgu2.setReturn(getUserReturn2);
        api.enqueueCommand(_, cgu2, true);
        CSMUser user2 = (CSMUser)getUserReturn2.getAll();

        CSMCommand wqcommand = new CSMWordQuery(user2, new
String[]{"save", "people", "money", "time"}, null, null);
        wqcommand.setReturn(wordQueryReturn(_, api, 2));
        api.enqueueCommand(_, wqcommand, false);

        } catch (Exception x) {
            x.printStackTrace();
        }
    }}.start();
}

//-----
// CSMReturn helper factorys
//-----
public static CSMReturn getUserReturn(final IWait _) {
    return new CSMReturn() {
        private CSMUser user;
        public void begin() {
            _.log(System.identityHashCode(this)+" Begin User Return
");
        }
        public boolean add(CSMCommand _command, Object _add) {
            user = (CSMUser)_add;
            System.out.println("Storing User Return:"+user);
            return false;
        }
    };
}

```

```

    }
    public void done() {
        _.log(System.identityHashCode(this)+" End User Return
");
    }
    public Object getAll() { return user; }

};

}
//-----
public static CSMReturn getTemplateQuestionReturn(final IWait _,final
CSMCommandAPI _api) {
    return new CSMReturn() {
        HashSet results = new HashSet();
        public void begin() {
            results.removeAll();
            _.log(System.identityHashCode(this)+" Begin Template
Question Return ");
        }
        public boolean add(CSMCommand _command,Object _add) {
            if (results.getCount() > 0) return true;
            if (_add instanceof CSMGetTextQuery) {
                CSMGetTextQuery tq = (CSMGetTextQuery)_add;
                tq.setReturn(wordQueryReturn(_,_api,10));
                results.add(tq);
                System.out.println(System.identityHashCode(this)+"
Storing Template Question Return:"+results.getCount());
            }
            return false;
        }
        public void done() {
            _.log(System.identityHashCode(this)+" End Template
Question Return ");
            for(Object a:results.getAll()) {
                System.out.println("Enqueing Template Question
Result\n"+a);
                _api.enqueueCommand(_, (CSMGetTextQuery)a,false);
            }
        }
    };
}
//-----
public static CSMReturn wordQueryReturn(final IWait _,final CSMCommandAPI
_api,final int _stopAfter) {
    return new CSMReturn() {
        DateFormat formatter = null;
        HashSet results = new HashSet();
        public void begin() {
            if (formatter == null) {
                formatter = new SimpleDateFormat("MM-dd-yyyy
hh:mm:ss aa",Locale.getDefault());
                formatter.setTimeZone(TimeZone.getDefault());
            }
            results.removeAll();
            _.log(System.identityHashCode(this)+" Begin Word Query
Return");
        }
    }
}

```

```

        public boolean add(CSMCommand _command, Object _add) {
            if (results.getCount() > _stopAfter) return true; //
Stops Results
            if (_add instanceof CSMGetArticle) {
                CSMGetArticle ga= (CSMGetArticle)_add;
                System.out.println("\n"+formatter.format(new
Date(ga.getDate()))+"\n");
                ga.setReturn(getArticleReturn(_));
                results.add(ga);
                System.out.println(System.identityHashCode(this)+"
Storing Word Query Result "+results.getCount());
            }
            return false;
        }
        public void done() {
            _log(System.identityHashCode(this)+"End Query Return
");
            for(Object a:results.getAll()) {
                System.out.println("Enqueing Word Query
Result\n"+a);
                _api.enqueueCommand(_, (CSMGetArticle)a, false);
            }
        }
    };
}

//-----
public static CSMReturn getArticleReturn(final IWait _) {
    return new CSMReturn() {
        DateFormat formatter = null;
        public void begin() {
            _log(System.identityHashCode(this)+" Begin Article
Return");
        }
        public boolean add(CSMCommand _command, Object _add) {
            if (formatter == null) {
                formatter = new SimpleDateFormat("MM-dd-yyyy
hh:mm:ss aa", Locale.getDefault());
                formatter.setTimeZone(TimeZone.getDefault());
            }

            String articleText = (String)_add;
            CSMGetArticle getArticleCommand =
(CSMGetArticle)_command;
            System.out.println("Date:"+formatter.format(new
Date(getArticleCommand.getDate())));

            System.out.println("Description:"+getArticleCommand.getDescription());

            String regexPatterns =
getArticleCommand.getRegexPatterns();
            if (regexPatterns == null || regexPatterns.length() ==
0) {
                System.out.println(articleText);
            }
        }
    };
}

```



```

        return false;
    }

    StringTokenizer tokenizer = new
StringTokenizer(regexPatterns, "\n");
    int tokenCount = tokenizer.countTokens();
    String[] lines = new String[tokenCount];
    for (int i=0; i<tokenCount; i++) lines[i] =
tokenizer.nextToken();

    StringBuffer output = new StringBuffer();
    boolean found = false;
    for(int i=0; i<lines.length; i+=3) {
        output.append(lines[i]); // Description
        Pattern regexPattern = null;
        try {
            regexPattern = Pattern.compile(lines[i+2]);
        } catch (Exception x) {
            continue;
        }
        Matcher matcher =
regexPattern.matcher(articleText);
        while (matcher.find()) {
            String line =
articleText.substring(matcher.start(), matcher.end());
            if (line.length() > 0) {
                found = true;
                output.append("Highlight:" + line);
            }
        }
    }
    if (found) {
        System.out.println(output.toString());
    }
    return false;
}

public void done() {
    _log(System.identityHashCode(this) + " End Article Return
");
}

};

}

```

Appendix C.2:Example-Test CSM Command API.java

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Appendix D.1: CSM Template Test README

Attached is a **CSM Template Test.java** file which runs all of the EEI questions in the "JI and Islamist influence on the Indonesian Government and its leaders" Template.

Also attached is the Log of the results from running this test. The log reports the number of results for each query that supports a given EEI Question, as well as the aggregate count.

This test relies solely on the CSM Command API, and shows that all EEI Template questions have results, and all done() methods are being called appropriately.

Appendix D.2: CSM Template Test.java

```
package csmdk.api.query;
//-----
import adk.net.p2p.*;
import adk.io.UIO;
import adk.io.ByteFiler;
import adk.interfaces.IValue;
import adk.interfaces.IFiler;
import adk.interfaces.IWait;
import adk.data.IBA;
import adk.data.KeyedSet;
import adk.data.HashSet;
import adk.data.HashTable;
import adk.util.SysHead;
import java.lang.Object;
import java.io.File;
import java.io.RandomAccessFile;
import java.util.regex.*;
import java.util.Locale;
import java.util.TimeZone;
import java.util.Date;
import java.util.StringTokenizer;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.text.ParsePosition;
//-----
public class TestEEITemplate {
    //-----
    static String[] eeiTemplate = new String[]{

        "JI","and","Islamist","influence","on","Indonesian","Government","and","its","lea
ders"

    };
    //-----
    static Object[] eeiQuestions = new Object[]{
        new
String[]{"Country","Indonesia","Group","Islamist","Education","Religious School"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Criminal Organizations"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Islamic Militias"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Islamist Parties"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Islamists"},
    }
```



```

        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Muslim Charities"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Muslims involved in communal conflict"},
        new String[]{"Country","Indonesia","Group","Islamist","Interest
Groups","Religious Organizations"},
        new String[]{"Country","Indonesia","Group","Islamist","Jihad","Anti-
Christian"},
        new String[]{"Country","Indonesia","Group","Islamist","Jihad","Anti-
Government"},
        new String[]{"Country","Indonesia","Group","Islamist","Jihad","Anti-
Western"},
        new
String[]{"Country","Indonesia","Group","Islamist","Mission","Islamic State"},
        new
String[]{"Country","Indonesia","Group","Islamist","Mission","Proselytizing"},
        new
String[]{"Country","Indonesia","Group","Islamist","Mission","Recruitment"},
        new
String[]{"Country","Indonesia","Group","Islamist","Mission","Sharia"},
        new
String[]{"Country","Indonesia","Group","Islamist","Power","Political"},
        new String[]{"Country","Indonesia","Group","Islamist","Power","Popular
Support"},
        new
String[]{"Country","Indonesia","Group","Islamist","Power","Religious"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Education","Religious"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Criminal Organizations"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Islamic Militias"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Islamist Parties"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Islamists"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Muslim Charities"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Muslims involved in communal conflict"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Interest Groups","Religious Organizations"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Jihad","Anti-Christian"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Jihad","Anti-Government"},

```

```

        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Jihad","Anti-Western"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Mission","Islamic State"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Mission","Proselytizing"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Mission","Recruitment"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Mission","Sharia"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Power","Political"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Power","Popular Support"},
        new String[]{"Country","Indonesia","Group","Jemaah
Islamiyah","Power","Religious"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Conflict","Anti-
West Sentiment"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Conflict","Religi
ous"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Conflict","Separ
atist"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Economy","Trad
e","Disruption"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Economy","Trad
e","Foreign Investments"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Economy","Trad
e","Growth"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Economy","Trad
e","Imports-Exports"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Economy","Trad
e","Tourism"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Education"},
        new
String[]{"Country","Indonesia","Individual","President","Yudhoyono","Interest
Groups","Christians"},

```

```

        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Interest
Groups", "Islamists"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Interest
Groups", "Moderate Muslims"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Interest
Groups", "Political Parties"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Interest
Groups", "Religious Organizations"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Interest
Groups", "Secular"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Law", "Jakarta
Charter"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Law", "Religious
Tolerance"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Law", "Sharia"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Power", "Balance
between Muslim Factions"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Power", "Politica
l Party Balance"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Power", "Popular
ity"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Allian
ces"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Borde
r"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Count
er-Terrorism"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Defen
se Cooperation"},

```



```

        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Foreign Investments"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Islamic Militias"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Security", "Maritime"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Social Welfare"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Terror", "International Operatives"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Terror", "Jihad"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Terror", "Terror Attacks"},
        new
String[] {"Country", "Indonesia", "Individual", "President", "Yudhoyono", "Terror", "Training Camps"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Conflict", "Anti-West Sentiment"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Conflict", "Religious"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Conflict", "Separatist"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Economy", "Trade", "Disruption"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Economy", "Trade", "Foreign Investments"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Economy", "Trade", "Growth"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Economy", "Trade", "Imports-Exports"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Economy", "Trade", "Tourism"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Education"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Interest Groups", "Christians"},
        new String[] {"Country", "Indonesia", "Individual", "Vice President", "Kalla", "Interest Groups", "Islamists"},

```

```

        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Interest Groups","Moderate Muslims"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Interest Groups","Political Parties"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Interest Groups","Religious Organizations"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Interest Groups","Secular"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Law","Jakarta Charter"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Law","Religious Tolerance"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Law","Sharia"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Power","Balance between Muslim Factions"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Power","Political Party Balance"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Power","Popularity"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Alliances"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Border"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Counter-Terrorism"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Defense Cooperation"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Foreign Investments"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Islamic Militias"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Security","Maritime"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Social Welfare"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Terror","International Operatives"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Terror","Jihad"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Terror","Terror Attacks"},
        new String[]{"Country","Indonesia","Individual","Vice
President","Kalla","Terror","Training Camps"},
        new
String[]{"Country","Indonesia","Institution","Government","Terror","Training Camps"},

```



```

        new
String[]{"Country","Indonesia","Institution","Government","Conflict","Anti-West
Sentiment"},
        new
String[]{"Country","Indonesia","Institution","Government","Conflict","Religious"},
        new
String[]{"Country","Indonesia","Institution","Government","Conflict","Separatist"},
        new
String[]{"Country","Indonesia","Institution","Government","Economy","Trade","Disrupt
ion"},
        new
String[]{"Country","Indonesia","Institution","Government","Economy","Trade","Foreign
Investments"},
        new
String[]{"Country","Indonesia","Institution","Government","Economy","Trade","Growth
"},
        new
String[]{"Country","Indonesia","Institution","Government","Economy","Trade","Imports
-Exports"},
        new
String[]{"Country","Indonesia","Institution","Government","Economy","Trade","Touris
m"},
        new
String[]{"Country","Indonesia","Institution","Government","Education","Religious
School"},
        new String[]{"Country","Indonesia","Institution","Government","Foreign
Policy","Relationship to Muslim Countries"},
        new String[]{"Country","Indonesia","Institution","Government","Foreign
Policy","Relationship to West"},
        new String[]{"Country","Indonesia","Institution","Government","Foreign
Policy","Support for Global War on Terror"},
        new
String[]{"Country","Indonesia","Institution","Government","Law","Jakarta Charter"},
        new
String[]{"Country","Indonesia","Institution","Government","Law","Religious
Tolerance"},
        new
String[]{"Country","Indonesia","Institution","Government","Law","Sharia"},
        new
String[]{"Country","Indonesia","Institution","Government","Power","Balance between
Muslim Factions"},
        new
String[]{"Country","Indonesia","Institution","Government","Power","Strength of
Democracy"},
        new
String[]{"Country","Indonesia","Institution","Government","Security","Alliances"},

```



```

        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Border"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Counter-
Terrorism"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Defense
Cooperation"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Foreign
Investments"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Islamic
Militias"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Security", "Maritime"},
        new String[] {"Country", "Indonesia", "Institution", "Government", "Social
Welfare"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Terror", "International
Operatives"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Terror", "Jihad"},
        new
String[] {"Country", "Indonesia", "Institution", "Government", "Terror", "Terror Attacks"}
    };

//-----
public static void main(final String[] _args) {
    try {
        final String localAPIPort = _args[0];
        // Address of Firewall
        final String publicIPAddress = _args[1];
        // Address of CSM
        final String csmIPAddress = _args[2];
        // User Name
        final String userName = _args[3];

        new Thread() { public void run() {
            ServerPort.publicHostAddress(publicIPAddress);
            final IWait _ = new CSMWait() {
                public void log(Object _l) {}
            };
        }}
    }
}

```

```

        public void out(Object _value) {}
        public void out(Object _value, Object _key) {}
    };

    final CSMCommandAPI api =
CSMCommandAPI.open(Integer.parseInt(localAPIPort), csmIPAddress, 1001);
    try {

        api.open(_);

        // Have to get a CSMUser instance inorder to
invoke any of the command
        CSMReturn getUserReturn = getUserReturn(_);
        CSMGetUser cgu = new CSMGetUser(userName);
        cgu.setReturn(getUserReturn);
        api.enqueueCommand(_, cgu, true);
        CSMUser user =
(CSMUser)getUserReturn.getAll();

        final File logFile = new
File("TestEEITemplateLog.txt");

        appendTextFile("EEI.Template.Name:" + toText(eeiTemplate, ", "), logFile);
        final Object[] eeiQuestionsResults = new
Object[eeiQuestions.length];

        for(int i=0; i<eeiQuestions.length; i++) {
            final int _i = i;
            final String[] eeiQuestion =

(String[])eeiQuestions[i];

            CSMCommand templateQuestion = new
CSMGetTemplateQuestion(

                user, eeiTemplate, false, eeiQuestion, false
            );
            IValue handleTemplateQuestionReturnDone
= new IValue() {

                public Object getValue() { return

null; }

                public void setValue(Object _value)

{

                    eeiQuestionsResults[_i] =

_value;

                    final Object[] textQuerys =

(Object[])_value;

                    final Object[]

textQuerysResults = new Object[textQuerys.length];

```

```

t=0;t<textQueryys.length;t++) {
    handleTextQueryReturnDone = new IValue() {
        getValue() { return null; }
        setValue(Object _value) {
            textQueryysResults[_t] = _value;
            i=0;i<textQueryysResults.length;i++) {
                if (textQueryysResults[i] == null) return;
                appendTextFile("EEI.Template.Question.Name:"+toText(eeiQuestion,""),logFile
            );
            HashSet aggregate = new HashSet();
            int runningTotal = 0;
            for(int i=0;i<textQueryysResults.length;i++) {
                Object[] results = (Object[])textQueryysResults[i];
                runningTotal += results.length;
                for(int r=0;r<results.length;r++) {
                    CSMGetArticle article = (CSMGetArticle)results[r];
                    aggregate.add(article.getHashObject());
                }
                CSMGetTextQuery textQuery = (CSMGetTextQuery)textQueryys[i];
                appendTextFile("EEI.Template.Question.Query.Name:"+textQuery.getDescription(),logFile);
                appendTextFile("EEI.Template.Question.Query.Result.Count:("+results.length+")

```



```

RunningTotal.Count:("+runningTotal+")
Arregate.Count:("+aggregate.getCount()+")",logFile);

    }

    catch(Exception x) { x.printStackTrace(); }

    }

    };
    CSMGetTextQuery
textQuery = (CSMGetTextQuery)textQuerys[t];
    CSMReturn
textQueryReturn = getTextQueryReturn(_,api,-1,handleTextQueryReturnDone);

    textQuery.setReturn(textQueryReturn);

    api.enqueueCommand(_,textQuery,false);

    }
    for(int
j=0;j<eeiQuestionsResults.length;j++) {
        if
        (eeiQuestionsResults[j] == null) return;
    }
    System.exit(0);
    }
    };
    CSMReturn csmTemplateQuestionReturn =
getTemplateQuestionReturn(_,api,handleTemplateQuestionReturnDone);

    templateQuestion.setReturn(csmTemplateQuestionReturn);

    api.enqueueCommand(_,templateQuestion,false);
    }

    } catch (Exception x) {
        x.printStackTrace();
    }
    }}.start();

    } catch(Exception x) {
        System.out.println("arg[0] = localAPIPort");
        System.out.println("arg[1] = publicIPAddress");
        System.out.println("arg[2] = csmIPAddress");
        System.out.println("arg[3] = userName");
    }

```

```

    }
}

//-----
// CSMReturn helper factorys
//-----
public static CSMReturn getUserReturn(final IWait _){
    return new CSMReturn() {
        private CSMUser user;
        public void begin() {
            _.log(System.identityHashCode(this)+" Begin User Return
");
        }
        public boolean add(CSMCommand _command, Object _add) {
            user = (CSMUser)_add;
            System.out.println("Storing User Return:"+user);
            return false;
        }
        public void done() {
            _.log(System.identityHashCode(this)+" End User Return
");
        }
        public Object getAll() { return user; }
    };
}

//-----
public static CSMReturn getTemplateQuestionReturn(final IWait _final
CSMCommandAPI _api, final IValue _done) {

    return new CSMReturn() {
        HashSet results = new HashSet();
        public void begin() {
            results.removeAll();
            _.log(System.identityHashCode(this)+" Begin Template
Question Return ");
        }
        public boolean add(CSMCommand _command, Object _add) {
            if (_add instanceof CSMGetTextQuery) {
                CSMGetTextQuery tq = (CSMGetTextQuery)_add;
                results.add(tq);
                _.log(System.identityHashCode(this)+" Storing
Template Question Return:"+results.getCount());
            }
            return false;
        }
    }
}

```

```

        public void done() {
            _log(System.identityHashCode(this)+" End Template
Question Return ");
            _done.setValue(results.getAll());
        }
    };
}

//-----
public static CSMReturn getTextQueryReturn(final IWait _,final
CSMCommandAPI _api,final int _stopAfter,final IValue _done) {
    return new CSMReturn() {
        DateFormat formatter = null;
        HashSet results = new HashSet();
        public void begin() {
            if (formatter == null) {
                formatter = new SimpleDateFormat("MM-dd-yyyy
hh:mm:ss aa",Locale.getDefault());
                formatter.setTimeZone(TimeZone.getDefault());
            }
            results.removeAll();
            _log(System.identityHashCode(this)+" Begin Word Query
Return");
        }
        public boolean add(CSMCommand _command,Object _add) {
            if (_stopAfter != -1 && results.getCount() > _stopAfter)
return true; // Stops Results
            if (_add instanceof CSMGetArticle) {
                CSMGetArticle ga= (CSMGetArticle)_add;
                results.add(ga);
                _log(System.identityHashCode(this)+" Storing
Word Query Result "+results.getCount());
            }
            return false;
        }
        public void done() {
            _log(System.identityHashCode(this)+"End Query Return
");
            _done.setValue(results.getAll());
        }
    };
}

//-----
public static CSMReturn getArticleReturn(final IWait _) {

```



```

        return new CSMReturn() {
            DateFormat formatter = null;
            public void begin() {
                _.log(System.identityHashCode(this)+" Begin Article
Return");
            }
            public boolean add(CSMCommand _command, Object _add) {
                if (formatter == null) {
                    formatter = new SimpleDateFormat("MM-dd-yyyy
hh:mm:ss aa", Locale.getDefault());
                    formatter.setTimeZone(TimeZone.getDefault());
                }

                String articleText = (String) _add;
                CSMGetArticle getArticleCommand =
(CSMGetArticle) _command;
                System.out.println("Date:"+formatter.format(new
Date(getArticleCommand.getDate())));

                System.out.println("Description:"+getArticleCommand.getDescription());

                String regexPatterns =
getArticleCommand.getRegexPatterns();
                if (regexPatterns == null || regexPatterns.length() == 0) {
                    System.out.println(articleText);
                    return false;
                }

                StringTokenizer tokenizer = new
StringTokenizer(regexPatterns, "\n");
                int tokenCount = tokenizer.countTokens();
                String[] lines = new String[tokenCount];
                for (int i=0; i<tokenCount; i++) lines[i] = tokenizer.nextToken();

                StringBuffer output = new StringBuffer();
                boolean found = false;
                for(int i=0; i<lines.length; i+=3) {
                    output.append(lines[i]); // Description
                    Pattern regexPattern = null;
                    try {
                        regexPattern = Pattern.compile(lines[i+2]);
                    } catch (Exception x) {
                        continue;
                    }
                }
            }
        }
    }
}

```

```

        }
        Matcher matcher =
regexPattern.matcher(articleText);
        while (matcher.find()) {
            String line =
articleText.substring(matcher.start(),matcher.end());
            if (line.length() > 0) {
                found = true;
                output.append("Highlight:"+line);
            }
        }
    }
    if (found) {
        System.out.println(output.toString());
    }
    return false;
}
public void done() {
    _log(System.identityHashCode(this)+" End Article Return
");
}
};
}

```

```

//-----
public static String toText(String[] strings,String delim) {
    String string = "";
    if (strings != null) {
        for (int i=0;i<strings.length;i++) {
            if (strings[i] == null) continue;
            string += strings[i].toString();
            if (i < strings.length-1) string+=delim;
        }
    }
    return string;
}

//-----
public static void appendTextFile(String _line,File _file) {
    appendTextFile(new String[] {_line},0,1,_file);
}
public static void appendTextFile(String[] _lines,int _s,int _l,File _file) {
    try {
        RandomAccessFile filer = new RandomAccessFile(_file,"rw");
    }
}

```

```

        filer.seek(filer.length());
        filer.setLength(filer.getFilePointer());
        for (int l = _s; l < _l; l++) {
            filer.write((_lines[l] + "\n").getBytes());
        }
        filer.close();
    }
    catch (Exception x) {
        x.printStackTrace();
    }
}
??
??
??
??
??

```


Appendix E: Query Expansion EEI Template Log

The database used contained 380,000 open source news articles that included the word Indonesia.

Count= Number of article Returned for the query

Total Returns=Returns for the whole query set, before duplicate returns are subtracted

Unique Returns=Number of returns after duplicate returns found by more than one query are removed

Name	Count	Total Count	Unique Returns
------	-------	-------------	----------------

JI and Islamist influence on Indonesian Government and its leaders

Country Indonesia Group Islamist Education Religious School

indonesia school religious country islamist group education	82	82	82
---	----	----	----

Country Indonesia Institution Government Terror Terror Attacks

indonesian government jihad bomb	3		
indonesian government terror attack	259		
indonesia government terror bomb	161		
indonesia government jihad bomb	3		
indonesian government terror bomb	145		
indonesia government jihad attack	6		
indonesian government jihad attack	8	585	441

Country Indonesia Institution Government Terror Jihad

indonesia government counter terrorism	310		
indonesian government detect terrorism	1		
indonesia government disrupt terrorism	1		
indonesian government fight terror	173		
indonesian government response terror	23		
indonesia government counter terror	176		
indonesian government war terrorism	185		
indonesian government eradicate terrorist	9		
indonesian government response jihad	3		
indonesian government disrupt terror	3		
indonesian government war jihad	10		
indonesian government jihadist	12		
indonesian government jihadi	7		
indonesian government disrupt terrorist	1		
indonesian government counter terror	136		
indonesian government jihad	164		
indonesia government response jihad	3		
indonesia government fight jihadist	1		
indonesian government war jihadist	2		
indonesia government terrorist	2507		
indonesian government eradicate terrorism	30		
indonesian government response terrorist	26		
indonesia government detect terror	3		
indonesian government fight terrorism	313		
indonesia government counter terrorist	50		
indonesian government fight jihad	6		

Name	Count	Total Count	Unique Returns
indonesia government eradicate terrorist	7		
indonesia government response terror	35		
indonesia government fight jihad	5		
indonesia government terrorism	2889		
indonesian government fight jihadist	1		
indonesia government war terrorist	124		
indonesian government response terrorism	24		
indonesia government disrupt terror	10		
indonesia government response terrorism	38		
indonesian government terrorism	1996		
indonesian government counter jihad	1		
indonesia government war jihadi	1		
indonesia government response jihadist	1		
indonesian government terrorist	1555		
indonesia government fight terror	263		
indonesian government counter terrorism	246		
indonesian government detect terrorist	2		
indonesia government jihadist	33		
indonesia government eradicate terrorism	36		
indonesia government detect terrorist	2		
indonesian government eradicate jihad	1		
indonesian government eradicate terror	11		
indonesian government fight terrorist	43		
indonesia government disrupt terrorist	8		
indonesia government fight jihadi	2		
indonesian government war terror	221		
indonesia government response terrorist	42		
indonesia government eradicate terror	13		
indonesian government disrupt terrorism	1		
indonesia government detect terrorism	2		
indonesia government fight terrorist	77		
indonesia government jihadi	27		
indonesia government fight terrorism	446		
indonesian government terror	1989		
indonesia government jihad	225		
indonesian government detect terror	2		
indonesia government war jihad	12		
indonesia government terror	3088		
indonesian government war terrorist	77		
indonesia government war terror	420		
indonesian government counter terrorist	25		
indonesia government war terrorism	290		
indonesia government war jihadist	1	18447	6848
Country Indonesia Institution Government Terror International Operatives			
indonesian government terrorists international	23		
indonesia government operative	174		
indonesia government terrorist international	78		
indonesian government terrorist	2886		

Name	Count	Total Count	Unique Returns
indonesian government operatives international	1		
indonesian government operative	95		
indonesian government terrorist international	46		
indonesia government terrorists international	29		
indonesia government operative international	1		
indonesian government terrorists	1340		
indonesia government operatives	197		
indonesia government terrorists	2348		
indonesia government operatives international	1		
indonesian government operatives	104	7323	4911
Country Indonesia Institution Government Social Welfare			
indonesia government social welfare	186		
indonesian government social welfare	112	298	206
Country Indonesia Institution Government Security Maritime			
indonesian government security sea	14		
indonesian government security boat	7		
indonesian government security ship	11		
indonesia government security maritime	19		
indonesia government security sea	28		
indonesia government security port	62		
indonesian government security port	35		
indonesia government security ship	19		
indonesian government security maritime	13		
indonesia government security ocean	1		
indonesian government security ocean	1		
indonesian government security harbor	1		
indonesia government security boat	7	218	146
Country Indonesia Institution Government Security Islamic Militias			
indonesia government islamic militias	2		
indonesia government crackdown islamic militia	1		
indonesian government islamic militants	120		
indonesia government crackdown islamic militants	6		
indonesia government islamic militia	36		
indonesian government islamic militia	13		
indonesian government crackdown islamic militant	6		
indonesian government crackdown islamic militants	4		
indonesian government islamic militant	107		
indonesia government islamic militant	155		
indonesia government islamic militants	168		
indonesian government islamic militias	2		
indonesia government crackdown islamic militant	7	627	342
Country Indonesia Institution Government Security Foreign Investments			
indonesia government foreign investments	249		
indonesia government fdi	305		
indonesian government foreign investments	65		

Name	Count	Total Count	Unique Returns
indonesia government foreign investment	1738		
indonesian government fdi	135		
indonesian government foreign investment	716	3208	2020
Country Indonesia Institution Government Security Defense Cooperation			
indonesia government defense alliance	3		
indonesian government defense cooperation	37		
indonesia government defense cooperation	54		
indonesian government defense alliance	1		
indonesian government defense relationship	2		
indonesia government defense relationship	8	105	69
Country Indonesia Institution Government Security Counter-Terrorism			
indonesian government disrupt terrorism	1		
indonesia government eradicate terror	13		
indonesia government detect terror	3		
indonesia government war jihadist	1		
indonesia government war jihad	12		
indonesian government fight jihadist	1		
indonesian government war terror	221		
indonesia government fight jihadist	1		
indonesian government war jihadist	2		
indonesia government detect terrorist	2		
indonesian government eradicate terrorist	9		
indonesian government eradicate terrorism	30		
indonesian government disrupt terror	3		
indonesia government disrupt terrorist	8		
indonesia government disrupt terror	10		
indonesia government terrorist	2507		
indonesia government counter terrorist	50		
indonesian government counter terror	136		
indonesia government fight terrorist	77		
indonesia government eradicate terrorism	36		
indonesian government fight terrorist	43		
indonesian government eradicate jihad	1		
indonesia government response jihadist	1		
indonesian government terrorist	1555		
indonesia government disrupt terrorism	1		
indonesian government fight jihad	6		
indonesian government fight terrorism	313		
indonesia government fight terror	263		
indonesia government counter terror	176		
indonesian government terrorism	1996		
indonesian government counter terrorism	246		
indonesia government terror	3088		
indonesia government war terrorist	124		
indonesian government counter terrorist	25		
indonesian government eradicate terror	11		
indonesian government detect terror	2		

Name	Count	Total Count	Unique Returns
indonesian government war terrorist	77		
indonesia government war jihadi	1		
indonesian government response terrorist	26		
indonesia government response terror	35		
indonesian government war jihad	10		
indonesian government terror	1989		
indonesia government eradicate terrorist	7		
indonesian government detect terrorist	2		
indonesia government fight jihadi	2		
indonesia government response terrorism	38		
indonesia government detect terrorism	2		
indonesia government response jihad	3		
indonesian government response jihad	3		
indonesian government response terror	23		
indonesian government counter jihad	1		
indonesia government war terrorism	290	13483	6075
indonesia government response terrorist	42		
indonesian government detect terrorism	1		
indonesia government fight jihad	5		
indonesian government disrupt terrorist	1		
indonesian government fight terror	173		
indonesia government terrorism	2889		
indonesian government war terrorism	185		
indonesian government response terrorism	24		
indonesia government fight terrorism	446		
indonesia government counter terrorism	310		
indonesia government war terror	420	17979	6663
Country Indonesia Institution Government Security Border			
indonesian government border security	116		
indonesia government border patrol	47		
indonesia government border	2101		
indonesian government border patrol	18		
indonesian government border	1288		
indonesia government border security	169	3739	2356
Country Indonesia Institution Government Security Alliances			
indonesian government security cooperation	70		
indonesia government security cooperation	143		
indonesian government security relationship	6		
indonesian government security alliance	5		
indonesia government security alliance	16		
indonesia government security relationship	11		
indonesia government security relationships	1		
indonesia government security alliances	1		
indonesian government security relationships	1	254	179
Country Indonesia Institution Government Power Strength of Democracy			
indonesia institution of government strength democracy power country	156	156	156

Name	Count	Total Count	Unique Returns
Country Indonesia Institution Government Power Balance between Muslim Factions			
indonesia government muslim section	3		
indonesian government muslims party	4		
indonesia government muslims party	11		
indonesia government muslim party	42		
indonesian government muslim party	32		
indonesian government muslim section	1		
indonesian government muslim factions	4		
indonesia government muslims division	1		
indonesia government muslim factions	6		
indonesia government muslim division	2	106	62
Country Indonesia Institution Government Law Sharia			
indonesian government islamic law	166		
indonesia government shariah	121		
indonesian government religious law	12		
indonesian government sharia	178		
indonesia government religious law	10		
indonesia government islamic law	213		
indonesian government muslim law	1		
indonesia government sharia	257		
indonesia government muslim law	5		
indonesian government shariah	70	1033	587
Country Indonesia Institution Government Law Religious Tolerance			
indonesia government religious tolerance	19		
indonesian government religious tolerance	14	33	19
Country Indonesia Institution Government Law Jakarta Charter			
indonesia government jakarta charter	1		
indonesian government jakarta charter	1	2	1
Country Indonesia Institution Government Foreign Policy Support for Global War on Terror			
indonesia government fight global war terror	4		
indonesian government fight global war terror	3		
indonesian government support global war terror	1		
indonesia government support global war terror	3	11	7
Country Indonesia Institution Government Foreign Policy Relationship to West			
indonesia government foreign policy u s	32		
indonesian government foreign policy west	3		
indonesian government america	931		
indonesian government foreign policy america	1		
indonesia government foreign policy united	25		
indonesia government foreign policy west	5		
indonesian government foreign policy united	4		
indonesia government us	13591		
indonesian government united	4271		

Name	Count	Total Count	Unique Returns
indonesian government foreign policy us	10		
indonesian government foreign policy u s	10		
indonesia government america	3188		
indonesian government foreign policy u s	8		
indonesia government foreign policy us	15		
indonesia government foreign policy america	11	22105	19616

Country Indonesia Institution Government Foreign Policy Relationship to Muslim Countries

indonesia government foreign policy muslim countries	6	6	6
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Country Indonesia Institution Government Education Religious School

indonesia government indonesian salafi	12		
indonesian government indonesian modernist	204		
indonesian government indonesian islamist	202		
indonesian government indonesian salafi	15		
indonesia government indonesia salafist	15		
indonesia government indonesian salafist	5		
indonesia government indonesian fundamentalist	110		
indonesia government indonesian modernist	180		
indonesian government indonesian fundamentalist	117		
indonesia government indonesia fundamentalist	254		
indonesia government indonesia islamist	489		
indonesia government indonesia modernist	263		
indonesia government indonesian islamist	162		
indonesian government indonesian salafist	7		
indonesia government indonesia salafi	22	2057	1005

Country Indonesia Institution Government Economy Trade Tourism

indonesia government tourism increase	13		
indonesian government tourism stop	1		
indonesian government tourism	915		
indonesia government tourism disruption	1		
indonesia government tourism boost	6		
indonesian government tourism decline	1		
indonesian government tourism increase	7		
indonesia government tourism growth	10		
indonesia government tourism	1810		
indonesian government tourism boost	1		
indonesia government tourism gain	1		
indonesian government tourism growth	2		
indonesia government tourism stop	1		
indonesian government tourism decrease	1	2770	1993

Country Indonesia Institution Government Economy Trade Imports-Exports

indonesia government export increase	90		
indonesia government export growth	171		
indonesia government import gain	6		
indonesia government trade increase	71		
indonesian government export rise	16		

Name	Count	Total Count	Unique Returns
indonesia government trade boost	13		
indonesian government trade	2865		
indonesian government trade increase	40		
indonesian government import decline	6		
indonesian government export decline	6		
indonesia government export	3682		
indonesian government import increase	25		
indonesian government trade gain	8		
indonesia government trade growth	54		
indonesia government export gain	23		
indonesia government trade reduction	8		
indonesia government trade decrease	1		
indonesia government trade gain	14		
indonesian government import	1525		
indonesian government import reduction	1		
indonesia government trade decline	7		
indonesian government trade decline	2		
indonesia government import growth	36		
indonesian government import decrease	2		
indonesian government export increase	38		
indonesian government import rise	10		
indonesian government trade growth	23		
indonesia government import reduction	7		
indonesian government export growth	39		
indonesia government trade	6695		
indonesia government export rise	38		
indonesian government export boost	10		
indonesian government export gain	2		
indonesia government export decrease	1		
indonesian government trade rise	8		
indonesian government trade reduction	2		
indonesia government import	3280		
indonesia government import boost	20		
indonesia government import increase	49		
indonesian government export	1405		
indonesian government import boost	15		
indonesia government import decrease	2		
indonesian government trade boost	4		
indonesia government export boost	28		
indonesian government import growth	12		
indonesia government export reduction	4		
indonesia government import decline	14		
indonesian government import gain	3		
indonesia government export decline	19		
indonesia government import rise	40		
indonesia government trade rise	25	20465	12241
Country Indonesia Institution Government Economy Trade Growth			
indonesian government import boost	15		

Name	Count	Total Count	Unique Returns
indonesian government trade rise	8		
indonesia government trade boost	13		
indonesia government import growth	36		
indonesia government export rise	38		
indonesia government export gain	23		
indonesia government trade increase	71		
indonesian government import gain	3		
indonesia government import boost	20		
indonesia government export growth	171		
indonesian government trade increase	40		
indonesia government trade rise	25		
indonesia government trade gain	14		
indonesian government trade gain	8		
indonesian government export increase	38		
indonesian government export gain	2		
indonesian government import growth	12		
indonesian government export growth	39		
indonesian government trade growth	23		
indonesian government export rise	16		
indonesian government import increase	25		
indonesia government trade growth	54		
indonesia government import gain	6		
indonesia government export increase	90		
indonesia government import rise	40		
indonesia government import increase	49		
indonesia government export boost	28		
indonesian government export boost	10		
indonesian government import rise	10		
indonesian government trade boost	4	931	652
Country Indonesia Institution Government Economy Trade Foreign Investments			
country investments indonesia institution government economy trade foreign	525	525	525
Country Indonesia Institution Government Economy Trade Disruption			
indonesia government trade stop	17		
indonesian government trade disrupt	1		
indonesian government trade stop	6		
indonesia government trade disrupt	1		
indonesia government trade halt	1	26	20
Country Indonesia Institution Government Conflict Separatist			
indonesia government opm conflict	7		
indonesia government policy separatists	12		
indonesia government crackdown separatism	2		
indonesian government gam fighting	9		
indonesia government separatists conflict	151		
indonesian government pressure separatist	10		
indonesia government policy opm	3		
indonesia government arrest separatists	7		

Name	Count	Total Count	Unique Returns
indonesian government separatist fight	84		
indonesian government gam struggle	3		
indonesian government separatists fight	30		
indonesia government separatist fighting	295		
indonesian government pressure gam	2		
indonesian government separatist conflicts	125		
indonesian government arrest separatists	10		
indonesian government policy separatists	10		
indonesia government opm conflicts	4		
indonesian government crackdown separatism	1		
indonesian government arrest separatist	18		
indonesian government opm conflict	5		
indonesia government pressure separatist	12		
indonesian government separatist struggle	108		
indonesia government separatists fight	35		
indonesia government gam conflict	19		
indonesian government policy separatism	7		
indonesia government pressure separatism	2		
indonesian government separatists conflicts	12		
indonesia government arrest separatism	1		
indonesia government separatist fight	111		
indonesia government separatist conflict	686		
indonesian government separatist fighting	262		
indonesia government crackdown separatist	2		
indonesia government separatists struggle	30		
indonesia government crackdown separatists	4		
indonesia government arrest separatist	12		
indonesia government pressure separatists	5		
indonesian government policy separatist	32		
indonesia government separatist struggle	127		
indonesian government gam conflict	20		
indonesian government separatists fighting	111		
indonesia government separatists conflicts	9		
indonesian government crackdown separatists	4		
indonesian government pressure separatists	5		
indonesian government separatists struggle	27		
indonesia government separatist conflicts	150		
indonesian government separatist conflict	641		
indonesia government separatists fighting	116		
indonesian government separatists conflict	146		
indonesian government opm conflicts	2		
indonesia government policy separatist	32		
indonesia government gam struggle	4		
indonesian government pressure separatism	1		
indonesian government arrest separatism	2		
indonesia government pressure gam	1		
indonesian government policy opm	3		
indonesian government crackdown separatist	3		
indonesia government policy separatism	11		

Name	Count	Total Count	Unique Returns
indonesia government gam fighting	8	3551	1580

Country Indonesia Institution Government Conflict Religious

indonesian government response religious conflict	2		
indonesia government talk religious conflict	8		
indonesian government religious conflict	254		
indonesia government talk religious struggle	1		
indonesia government peace religious struggle	7		
indonesian troops communal conflict	4		
indonesian troops communal violence	11		
indonesia government peace religion violence	33		
indonesia government religion struggle	8		
indonesia government response communal conflict	1		
indonesia government peace communal violence	12		
indonesian government respond religion conflict	1		
indonesia troops religious fight	3		
indonesian government religion fight	45		
indonesian government religious struggle	13		
indonesia deploy communal violence	1		
indonesian military religious struggle	5		
indonesia troops religion violence	1		
indonesia government talk religion fight	2		
indonesia government peace religious conflict	50		
indonesian government react religious fight	1		
indonesia government religion conflict	33		
indonesian government peace communal conflict	6		
indonesia government respond religion violence	4		
indonesia government religion conflicts	66		
indonesia government peace religious fight	16		
indonesian government reaction religion conflict	2		
indonesian troops religious violence	21		
indonesia troops religious conflict	3		
indonesian government reaction religious struggle	1		
indonesia government communal fight	1		
indonesian government communal violent	7		
indonesia troops religion conflict	1		
indonesia troops communal conflict	4		
indonesia troops communal violence	7		
indonesia government communal conflict	27		
indonesia military religion violence	8		
indonesia government religion conflict	138		
indonesia government response religious conflict	5		
indonesian government talk religion conflict	1		
indonesia government response religious struggle	3		
indonesia government response religion fight	1		
indonesia government react religious fight	1		
indonesian military communal conflict	8		
indonesian troops religion violence	1		
indonesia government reaction religion struggle	1		

Name	Count	Total Count	Unique Returns
indonesia government react religious violence	3		
indonesia government talk communal conflict	2		
indonesia military communal conflict	9		
indonesia military religious struggle	11		
indonesia government communal violence	43		
indonesian government response religion struggle	2		
indonesian government religious violent	67		
indonesian government reaction religious violence	2		
indonesian government muslim violent	210		
indonesian military religion fight	5		
indonesia government religion fight	16		
indonesia government religion fighting	51		
indonesian government talk religious fight	2		
indonesian government mediate communal conflict	1		
indonesian troops religious fight	1		
indonesia government reaction religious conflict	1		
indonesia troops religious violence	25		
indonesia government religious fight	30		
indonesian government peace religion fight	6		
indonesia government response religion violence	3		
indonesia government communal violence	124		
indonesian military religious conflict	25		
indonesia government religious violent	129		
indonesia military religious violence	74		
indonesia government reaction religious fight	1		
indonesia government talk religion violence	4		
indonesia government respond religious fight	1		
indonesian government muslim conflicts	78		
indonesia government religion violence	64		
indonesia government peace communal fight	1		
indonesian deploy religious conflict	3		
indonesian deploy communal violence	1		
indonesian government religion violent	28		
indonesian government communal fight	4		
indonesian government respond communal violence	1		
indonesian government response religious violence	6		
indonesian government religious violence	126		
indonesian government reaction religious fight	1		
indonesian government peace religion struggle	1		
indonesian military religion violence	5		
indonesia government reaction religious violence	8		
indonesian government religious conflicts	120		
indonesian military religion conflict	3		
indonesia deploy religious conflict	3		
indonesia government muslim violent	499		
indonesia military religion struggle	1		
indonesia government muslim violence	1368		
indonesian government talk religious violence	5		
indonesia government communal struggle	1		

Name	Count	Total Count	Unique Returns
indonesian government religious fight	109		
indonesian military religious violence	46		
indonesian government respond religion violence	3		
indonesian christian muslim	157		
indonesian troops religion struggle	1		
indonesian government communal conflict	29		
indonesia government peace communal conflict	8		
indonesia government peace communal struggle	1		
indonesia government respond religious violence	2		
indonesia military religious fight	24		
indonesian government peace religious violence	31		
indonesia government communal conflict	102		
indonesian government reaction religious conflict	1		
indonesia government talk religious violence	8		
indonesia government respond communal violence	1		
indonesia government respond religious struggle	1		
indonesia military communal fight	2		
indonesian military communal fight	1		
indonesian government response religion violence	1		
indonesia government religious violence	175		
indonesian government religion fighting	23		
indonesia government muslim fighting	468		
indonesia government talk religion conflict	4		
indonesian government talk communal conflict	2		
indonesia government communal violent	10		
indonesian government religion conflicts	32		
indonesian government communal violence	95		
indonesian government response religious fight	2		
indonesian government communal violence	35		
indonesia military communal violence	24		
indonesian government respond religious struggle	1		
indonesia government religious fight	210		
indonesia government peace religion conflict	21		
indonesia government talk religion struggle	1		
indonesian government respond religious conflict	3		
indonesia government reaction religion conflict	1		
indonesian military religious fight	18		
indonesia government response religious violence	16		
indonesia military religion fight	9		
indonesian government talk religion violence	5		
indonesia government peace religion fight	11		
indonesia military religion conflict	9		
indonesian government religious conflict	73		
indonesian government talk religious conflict	4		
indonesian government religion fight	11		
indonesian government peace religion violence	13		
indonesian government talk religious struggle	1		
indonesian government religion conflict	20		
indonesia government communal fight	8		

Name	Count	Total Count	Unique Returns
indonesia government react religion violence	2		
indonesia government religious fighting	101		
indonesia christian muslim	528		
indonesian government mediate religion violence	1		
indonesian government react religious violence	1		
indonesian government communal conflict	86		
indonesia government talk religious fight	6		
indonesian government communal fight	1		
indonesia government response religion struggle	2		
indonesian government reaction religion struggle	1		
indonesian troops religious conflict	5		
indonesian government religion struggle	2		
indonesian government religion violence	33		
indonesia military religious conflict	47		
indonesian government react communal violence	1		
indonesian military communal violence	18		
indonesia government religious struggle	24		
indonesia government peace religion struggle	2		
indonesian government peace communal violence	7		
indonesia government religious conflict	101		
indonesia government religious violence	642		
indonesia government peace religious violence	46		
indonesian government religious fight	19	7513	3814

Country Indonesia Institution Government Conflict Anti-West Sentiment

indonesian demonstration u s	122
indonesian government against west	402
indonesian demonstration west	56
indonesia government anti united	276
indonesia government against christian	143
indonesian demonstration us	98
indonesia protest west	147
indonesian demonstration united	18
indonesian protest west	92
indonesia demonstration america	15
indonesian government anti america	185
indonesian government sentiment us	43
indonesian government sentiment united	15
indonesia protest us	464
indonesia government against west	730
indonesian government against united	355
indonesian government anti united	108
indonesian government anti bush	94
indonesia protest christian	35
indonesian protest america	32
indonesian government sentiment christian	1
indonesia protest united	143
indonesia demonstration west	64
indonesia government anti us	768

Name	Count	Total Count	Unique Returns
indonesian government against christian	86		
indonesia government anti christian	97		
indonesia demonstration christian	4		
indonesia government demonstration bush	21		
indonesia government protest bush	144		
indonesian protest us	305		
indonesian protest christian	17		
indonesian government anti christian	45		
indonesian government protest bush	96		
indonesia government sentiment united	35		
indonesia government anti west	347		
indonesia government sentiment bush	13		
indonesian demonstration america	5		
indonesian government against bush	173		
indonesia protest america	91		
indonesia government against bush	430		
indonesia demonstration united	31		
indonesian protest united	81		
indonesia government sentiment west	32		
indonesian government against us	1243		
indonesian government sentiment bush	8		
indonesian government sentiment america	4		
indonesia demonstration us	132		
indonesian government demonstration bush	16		
indonesia protest u s	962		
indonesian government anti west	173		
indonesian government sentiment west	26		
indonesia government sentiment us	88		
indonesia demonstration u s	247		
indonesia government against america	630		
indonesian protest u s	434		
indonesia government anti bush	202		
indonesia government anti america	620		
indonesia government against us	2165		
indonesian demonstration christian	2		
indonesia government sentiment america	32		
indonesia government against united	1072		
indonesian government anti us	475		
indonesia government sentiment christian	1		
indonesian government against america	144	15135	8568
Country Indonesia Institution Government Terror Training Camps			
indonesian government learned terrorists	1		
indonesian government study terrorism	1		
indonesia government teaching terrorist	1		
indonesian government training terrorists	4		
indonesia government studied terrorism	3		
indonesian government studied terrorist	3		
indonesian government study terrorist	1		

Name	Count	Total Count	Unique Returns
indonesian government training terrorism	11		
indonesia government learned terror	2		
indonesia government learn terror	2		
indonesia government studied terrorist	3		
indonesia government learn terrorist	2		
indonesia government study terrorism	1		
indonesia government training terrorism	13		
indonesia government training camps	27		
indonesia government study terror	6		
indonesia government learned terrorist	2		
indonesian government training camp	10		
indonesian government training camps	25		
indonesia government learn terrorists	2		
indonesian government learned terrorist	2		
indonesia government study terrorist	7		
indonesia government trains terror	1		
indonesia government training terrorist	9		
indonesia government learned terrorists	2		
indonesia government teaching terrorists	1		
indonesian government study terror	1		
indonesian government training terror	11		
indonesian government training terrorist	6		
indonesia government training terrorists	9		
indonesian government learned terror	1		
indonesia government training terror	16		
indonesia government training camp	12	198	84
Country Indonesia Individual Vice President Kalla Terror Training Camps			
indonesia kalla teach terrorist	2		
indonesia vice president study terror	1		
indonesian vice president training terror	1		
indonesian vice president training terrorist	1		
indonesian kalla teach terrorist	2		
indonesian vice president teach terror	2		
indonesia vice president teach terror	2		
indonesian vice president teach terrorist	2		
indonesia vice president study terrorism	1		
indonesia vice president teach terrorist	2		
indonesia kalla teach terror	2		
indonesian kalla teach terror	2	20	4
Country Indonesia Individual Vice President Kalla Terror Terror Attacks			
indonesia vice president terror attack	9		
indonesian vice president terror attack	3		
indonesian vice president terror bomb	3		
indonesia vice president terror bomb	11	26	20
Country Indonesia Individual Vice President Kalla Terror Jihad			
indonesia vice president terror	157		

Name	Count	Total Count	Unique Returns
indonesian kalla terrorists	17		
indonesia kalla terrorism	35		
indonesian vp jihad	2		
indonesian kalla jihad	7		
indonesia vp jihad	3		
indonesia vice president terrorism	96		
indonesian vice president terror	66		
indonesia vp terrorism	10		
indonesian vp terrorists	7		
indonesia vice president terrorist	98		
indonesian vice president terrorists	38		
indonesian vp terrorism	9		
indonesia kalla jihad	6		
indonesian vice president terrorism	64		
indonesia kalla terror	71		
indonesia kalla terrorist	34		
indonesian vice president jihad	14		
indonesia vice president terrorists	64		
indonesia vp terror	11		
indonesia kalla terrorists	21		
indonesian vice president terrorist	66		
indonesian kalla terror	58		
indonesia vp terrorists	8		
indonesian vp terrorist	15		
indonesian kalla terrorist	28		
indonesia vice president jihad	15		
indonesian vp terror	10		
indonesian kalla terrorism	31		
indonesia vp terrorist	12	1073	355
Country Indonesia Individual Vice President Kalla Terror International Operatives			
indonesia vp terrorists	16		
indonesian vice president terrorists	72		
indonesia vice president operatives	2		
indonesian vice president operative	17		
indonesia kalla terrorist	83		
indonesia kalla operatives	1		
indonesia vice president operative	31		
indonesian kalla operative	6		
indonesia kalla terrorists	55		
indonesian kalla terrorist	72		
indonesian vice president terrorist	156		
indonesian vp terrorists	10		
indonesian vice president operative international	1		
indonesian kalla terrorists	29		
indonesia vice president terrorists	135		
indonesia vice president terrorist	226		
indonesian vp terrorist	19		
indonesian vice president operatives	1		

Name	Count	Total Count	Unique Returns
indonesia kalla operative	9		
indonesian kalla operatives	1	942	378
Country Indonesia Individual Vice President Kalla Social Welfare			
indonesian kalla social welfare	12		
indonesia vice president social welfare	12		
indonesia kalla social welfare	8		
indonesian vice president social welfare	9		
Country Indonesia Individual Vice President Kalla Security Maritime			
indonesia vice president security ship	1		
indonesia vp security port	1		
indonesian vice president security port	2		
indonesian vice president security maritime	1		
indonesia vice president security port	2		
Country Indonesia Individual Vice President Kalla Security Islamic Militias			
indonesian kalla terrorist	72		
indonesian kalla terrorist	72		
indonesia kalla operative	9		
indonesian kalla terrorists	29		
indonesia vice president terrorists	135		
indonesia kalla terrorists	55		
indonesian kalla operatives	1		
indonesia kalla operatives	1		
indonesia vice president operative	31		
indonesia kalla operative	9		
indonesia vp terrorists	16		
indonesia vp terrorists	16		
indonesian kalla operatives	1		
indonesian vice president terrorist	156		
indonesia kalla terrorist	83		
indonesian vp terrorists	10		
indonesian vice president operative	17		
indonesian vice president terrorists	72		
indonesian kalla operative	6		
indonesian kalla terrorists	29		
indonesia vp terrorist	21		
indonesia vp terrorist	21		
indonesia vice president terrorist	226		
indonesia kalla terrorists	55		
indonesia kalla operatives	1		
indonesian kalla operative	6		
indonesian vp terrorist	19		
indonesian vice president operatives	1		
indonesia vice president operatives	2		
indonesia kalla terrorist	83		
indonesian vp terrorist	19	1274	379

Name	Count	Total Count	Unique Returns
Country Indonesia Individual Vice President Kalla Security Foreign Investments			
indonesia vice president foreign investments	6		
indonesian vice president foreign investments	2		
indonesia vice president foreign investment	30		
indonesia vp foreign investment	7		
indonesia kalla foreign investment	23		
indonesian kalla foreign investment	19		
indonesian vice president foreign investment	16		
indonesian vp foreign investment	3	106	53
Country Indonesia Individual Vice President Kalla Security Defense Cooperation			
indonesia vp defense	3		
indonesian kalla defense	25		
indonesia kalla defense	19	47	33
Country Indonesia Individual Vice President Kalla Security Counter-Terrorism			
indonesian kalla against terror	7		
indonesian vice president war terrorism	13		
indonesia vice president fight terror	15		
indonesian vp war terrorism	1		
indonesian vp terrorist	19		
indonesia kalla counter terror	3		
indonesia kalla against terrorist	6		
indonesian kalla war terror	7		
indonesia vice president jihad	15		
indonesia kalla war terror	19		
indonesia vice president war terrorism	25		
indonesian vice president terrorists	72		
indonesia kalla against terror	15		
indonesia vice president terrorism	96		
indonesian vp jihad	2		
indonesia kalla terrorist	83		
indonesia vp jihad	3		
indonesia vp against terror	3		
indonesian vp terrorists	10		
indonesian vice president anti terrorist	1		
indonesian kalla terror	58		
indonesia vp terror	11		
indonesia vice president counter terrorism	8		
indonesia vp fight terror	2		
indonesian kalla terrorism	31		
indonesia vice president operative	31		
indonesia vice president war terrorist	15		
indonesian kalla jihad	7		
indonesian vice president operatives	1		
indonesia kalla terrorist	34		
indonesian vice president terrorist	156		
indonesia kalla counter terrorist	2		
indonesia vp anti terror	5		

Name	Count	Total Count	Unique Returns
indonesia kalla war terrorists	12		
indonesian vp terror	10		
indonesian vice president war terrorists	5		
indonesia vice president terrorists	135		
indonesian vice president against terrorism	16		
indonesia kalla jihad	6		
indonesian kalla against terrorism	10		
indonesian kalla terrorist	28		
indonesia vice president anti terrorism	7		
indonesian vice president terrorists	38		
indonesian kalla against terrorists	1		
indonesia vice president fight terrorism	16		
indonesia vice president terrorist	98		
indonesian kalla counter terrorist	1		
indonesian kalla counter terrorists	1		
indonesia vice president against jihad	1		
indonesia vice president against terror	34		
indonesian kalla terrorists	29		
indonesian vice president fight terror	10		
indonesia vice president counter terror	2		
indonesia vice president terrorists	64		
indonesian kalla fight terrorism	12		
indonesia vp terrorists	8		
indonesia kalla anti terrorism	5		
indonesian vice president counter terrorism	8		
indonesia kalla anti terror	12		
indonesian vice president operative international	1		
indonesia vp fight terrorism	2		
indonesian vice president terror	66		
indonesian vice president against terrorists	6		
indonesia vp anti terrorist	1		
indonesian vice president anti terror	11		
indonesia vp war terrorist	2		
indonesian vp anti terrorism	3		
indonesia vice president war terrorists	17		
indonesian vice president counter terror	2		
indonesian vp terrorists	7		
indonesia vice president terror attack	9		
indonesia kalla fight terrorist	1		
indonesia vice president operatives	2		
indonesia vice president against terrorists	15		
indonesia vice president counter terrorists	1		
indonesia kalla fight terror	11		
indonesia vp terrorists	16		
indonesian vice president war terrorist	7		
indonesian vice president fight terrorism	13		
indonesia kalla against terrorism	12		
indonesian vp terrorist	15		
indonesian vice president terrorism	64		

Name	Count	Total Count	Unique Returns
indonesia kalla terrorists	21		
indonesian kalla terrorists	17		
indonesia vice president terrorist	226		
indonesia vp against terrorists	2		
indonesia kalla fight terrorists	1		
indonesian vice president terror attack	3		
indonesia vp anti terrorism	3		
indonesian kalla terrorist	72		
indonesian vice president against terror	14		
indonesian vice president war terror	12		
indonesian vp fight terror	2		
indonesia kalla terrorism	35		
indonesian vice president against jihad	1		
indonesian kalla anti terrorism	4		
indonesia vice president war terror	66		
indonesia vice president fight terrorist	1		
indonesia vice president anti terrorist	2		
indonesian vice president terrorist	66		
indonesian vp fight terrorism	2		
indonesian kalla anti terror	7		
indonesia kalla terror	71		
indonesia vp against terrorism	1		
indonesia vp war terror	3		
indonesia vp war terrorism	2		
indonesia kalla against terrorists	8		
indonesian vice president operative	17		
indonesia vice president anti terror	18		
indonesian kalla against terrorist	2		
indonesia vp terrorist	12		
indonesia vp anti terrorists	1		
indonesian kalla war terrorists	5		
indonesia vice president terror bomb	11		
indonesian kalla operatives	1		
indonesia kalla operatives	1		
indonesia kalla fight terrorism	12		
indonesia kalla war terrorism	10		
indonesia vice president terror	157		
indonesian kalla war terrorist	5		
indonesian vice president counter terrorists	1		
indonesian vice president against terrorist	8		
indonesia kalla war terrorist	9		
indonesian kalla fight terror	11		
indonesia kalla operative	9		
indonesia kalla terrorists	55		
indonesian vice president jihad	14		
indonesian vice president anti terrorism	7		
indonesia kalla counter terrorists	2		
indonesian vp anti terror	2		
indonesian vp terrorism	9		

Name	Count	Total Count	Unique Returns
indonesian vice president terror bomb	3		
indonesia vice president counter terrorist	1		
indonesia vp war terrorists	2		
indonesian kalla war terrorism	9		
indonesia vp against terrorist	2		
indonesia vp terrorism	10		
indonesian vice president counter terrorist	1		
indonesia vice president against terrorist	15		
indonesia vice president against terrorism	32		
indonesian kalla operative	6		
indonesian kalla counter terror	2	2733	599
Country Indonesia Individual Vice President Kalla Security Border			
indonesian vice president border	19		
indonesia vp border	1		
indonesia vice president border security	3		
indonesian vp border	1		
indonesia kalla border	13		
indonesian kalla border	7	44	32
Country Indonesia Individual Vice President Kalla Security Alliances			
indonesia kalla security cooperation	4		
indonesia vice president security cooperation	5		
indonesian vice president security cooperation	5		
indonesia vice president security alliance	1		
indonesian vice president security alliance	1		
indonesian kalla security cooperation	4	20	10
Country Indonesia Individual Vice President Kalla Power Popularity			
indonesian kalla popularity	17		
indonesian vice president popularity	12		
indonesian vp popular	1		
indonesian vice president popularity	12		
indonesian vice president popular	53		
indonesia vp popularity	1		
indonesia kalla popularity	16		
indonesia kalla popular	38		
indonesia vp power	55		
indonesia vp popular	2		
indonesian kalla popular	33	240	160
Country Indonesia Individual Vice President Kalla Power Political Party Balance			
indonesia vp political party	1		
indonesian vice president political parties	56		
indonesia vice president political group	5		
indonesia vice president political parties	42		
indonesia kalla political group	2		
indonesia kalla political parties	27		
indonesia kalla political party	37		

Name	Count	Total Count	Unique Returns
indonesian vice president political group	5		
indonesian kalla political party	33		
indonesian vice president political groups	1		
indonesian kalla political group	1		
indonesian vp political party	1		
indonesia vice president political party	46		
indonesia vice president political groups	1		
indonesian kalla political parties	33		
indonesian vice president political party	35	326	154

Country Indonesia Individual Vice President Kalla Power Balance between Muslim Factions

indonesian kalla muslim factions	3		
indonesian vice president muslims party	2		
indonesia vice president muslim factions	3		
indonesia kalla muslim party	2		
indonesia vice president muslim party	12		
indonesian vice president muslim factions	1		
indonesian kalla muslim party	3		
indonesia kalla muslims party	1		
indonesian vice president muslim party	13		
indonesia kalla muslim factions	12		
indonesian kalla muslims party	1		
indonesia vp muslim party	1		
indonesia vice president muslims party	1		
indonesian vp muslim party	1	56	32

Country Indonesia Individual Vice President Kalla Law Sharia

indonesian kalla shariah	2		
indonesia kalla shariah	3		
indonesia kalla sharia	8		
indonesia vp shariah	1		
indonesian kalla sharia	5	19	12

Country Indonesia Individual Vice President Kalla Law Religious Tolerance

president indonesia kalla religious tolerance law individual vice country	2	2	2
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Country Indonesia Individual Vice President Kalla Law Jakarta Charter

indonesia vp jakarta charter	1		
indonesia vice president jakarta charter	6		
indonesian vp jakarta charter	1		
indonesian vice president jakarta charter	8	16	8

Country Indonesia Individual Vice President Kalla Interest Groups Secular

indonesian kalla secular	3		
indonesia kalla secular	7		
indonesian kalla secular	7		
indonesian vice president secular	1	18	8

Country Indonesia Individual Vice President Kalla Interest Groups Religious Organizations

Name	Count	Total Count	Unique Returns
indonesian kalla religious groups	1		
indonesia kalla religious group	2		
indonesian kalla religious group	2		
indonesia kalla religious groups	1		
indonesian kalla religious organizations	1		
indonesian kalla religion groups	2		
indonesia kalla religion groups	2		
indonesia kalla religious organizations	2	13	7
Country Indonesia Individual Vice President Kalla Interest Groups Political Parties			
indonesian kalla political group	1		
indonesian vp political party	1		
indonesia vice president political party	46		
indonesia vice president political groups	1		
indonesian kalla political parties	33		
indonesian vice president political party	35		
indonesia vp political party	1		
indonesian vice president political parties	56		
indonesia vice president political parties	42		
indonesia vice president political group	5		
indonesia kalla political group	2		
indonesia kalla political parties	27		
indonesia kalla political party	37		
indonesian vice president political group	5		
indonesian kalla political party	33		
indonesian vice president political groups	1	326	154
Country Indonesia Individual Vice President Kalla Interest Groups Moderate Muslims			
indonesia vice president moderate muslim	2		
indonesian vice president moderate muslim	2	4	2
Country Indonesia Individual Vice President Kalla Interest Groups Islamists			
indonesia vice president fundamentalist	1		
indonesian vice president modernist	2		
indonesia vice president modernist	2		
indonesian vice president islamist	5		
indonesia vice president islamist	5	15	8
Country Indonesia Individual Vice President Kalla Interest Groups Christians			
indonesian kalla christians	7		
indonesian vice president christians	7		
indonesia vice president christians	16		
indonesia kalla christians	15	45	20
Country Indonesia Individual Vice President Kalla Education			
indonesia vice president educate	6		
indonesian vice president school	110		
indonesia vp school	7		
indonesia vice president school	180		

Name	Count	Total Count	Unique Returns
indonesian vp education	5		
indonesian vice president education	77		
indonesian kalla school	64		
indonesia kalla educate	2		
indonesian vp school	5		
indonesian kalla educate	2		
indonesia kalla school	59		
indonesia kalla education	56		
indonesian kalla education	55		
indonesia vp education	9	637	371
Country Indonesia Individual Vice President Kalla Economy Trade Tourism			
indonesian kalla tourism	12		
indonesia vice president tourism	22		
indonesia kalla tourism	10		
indonesian vp tourism	4		
indonesia vp tourism	2		
indonesian vice president tourism	14	64	35
Country Indonesia Individual Vice President Kalla Economy Trade Imports-Exports			
indonesian vice president exports	37		
indonesia vice president export boost	1		
indonesian vice president imports decline	1		
indonesian kalla importing	3		
indonesian vp export	4		
indonesia vice president export rise	2		
indonesian vp import	4		
indonesia vice president exports increase	10		
indonesian kalla exports	36		
indonesian vice president export rise	1		
indonesia vp importing	1		
indonesia vp imports	9		
indonesia vice president export growth	7		
indonesia kalla export	74		
indonesia vp exports	13		
indonesian kalla export increase	2		
indonesian vp exports	3		
indonesian vice president imports	31		
indonesian vice president exporting	8		
indonesian vice president export increase	2		
indonesia kalla exports	38		
indonesia kalla exports growth	1		
indonesia kalla exporting	9		
indonesian kalla exporting	5		
indonesian vice president exports increase	4		
indonesia vice president exports	95		
indonesian kalla import	51		
indonesian kalla export	67		
indonesia vice president import decline	1		

Name	Count	Total Count	Unique Returns
indonesia vice president export	230		
indonesian vice president exports rise	1		
indonesia vice president export	230		
indonesia vice president importing	15		
indonesian kalla exports increase	4		
indonesia vice president imports	60		
indonesia kalla trade reduction	1		
indonesia vice president import decrease	1		
indonesian kalla imports	14		
indonesia kalla export growth	2		
indonesian vice president import decline	1		
indonesia kalla export increase	1		
indonesia vice president exports rise	2		
indonesian kalla trade reduction	1		
indonesia kalla imports	19		
indonesian vice president export	96		
indonesia vp export	12		
indonesian vice president import	73		
indonesia kalla import	68		
indonesia vice president exports growth	4		
indonesia kalla exports increase	4		
indonesian vp imports	3		
indonesian vice president importing	4		
indonesia vice president exporting	20		
indonesia kalla importing	6		
indonesia vice president export increase	9	1401	466
Country Indonesia Individual Vice President Kalla Economy Trade Growth			
indonesia kalla trade rise	1		
indonesia vice president trade increase	3		
indonesian kalla trade increase	2		
indonesia vp trade boost	1		
indonesia vice president trade rise	3		
indonesian vice president trade rise	1	11	9
Country Indonesia Individual Vice President Kalla Economy Trade Foreign Investments			
indonesian vice president foreign investment	16		
indonesian vp foreign investment	3		
indonesian vice president foreign investments	2		
indonesia vice president foreign investments	6		
indonesian kalla foreign investment	19		
indonesia vice president foreign investment	30		
indonesia vp foreign investment	7		
indonesia kalla foreign investment	23	106	53
Country Indonesia Individual Vice President Kalla Economy Trade Disruption			
indonesia vice president foreign investment	30		
indonesian kalla foreign investment	19		
indonesian vice president foreign investment	16		

Name	Count	Total Count	Unique Returns
indonesia kalla foreign investment	23		
indonesia vice president foreign investments	6		
indonesian vp foreign investment	3		
indonesia vp foreign investment	7		
indonesian vice president foreign investments	2	106	53
Country Indonesia Individual Vice President Kalla Conflict Separatist			
indonesian vice president separatists fight	1		
indonesia vice president separatists fighting	1		
indonesian kalla separatist struggle	3		
indonesia vice president separatist conflicts	1		
indonesia kalla separatist fighting	2		
indonesian vice president separatist conflicts	1		
indonesia vice president separatists fight	1		
indonesian kalla separatist fighting	2		
indonesia kalla separatist conflict	12		
indonesian vice president separatists fighting	1		
indonesian vice president separatist struggle	3		
indonesian kalla separatist conflict	13	41	20
Country Indonesia Individual Vice President Kalla Conflict Religious			
indonesian kalla religious fight	2		
indonesian vice president religious fight	2		
indonesian vice president peace religious conflict	3		
indonesian kalla communal conflict	4		
indonesia vp religious violence	1		
indonesia kalla communal conflict	4		
indonesian kalla religious conflict	12		
indonesian vp religious violence	1		
indonesian kalla communal fight	1		
indonesian vice president religion violence	4		
indonesia vice president communal conflict	5		
indonesia vice president peace communal violence	4		
indonesian vice president religious violence	15		
indonesia kalla peace religious conflict	8		
indonesian vice president religious conflict	12		
indonesia vice president respond religion violence	1		
indonesia kalla religion violence	1		
indonesian kalla religion violence	1		
indonesian kalla peace religious conflict	7		
indonesia vice president religion violence	7		
indonesia vice president religious conflict	13		
indonesia vp communal violence	1		
indonesia kalla communal violence	4		
indonesian vice president communal conflict	4		
indonesian kalla religion conflict	5		
indonesia kalla religious fight	2		
indonesian kalla communal violence	4		
indonesia vice president religious violence	15		

Name	Count	Total Count	Unique Returns
indonesia vice president religion conflict	8		
indonesian vice president communal violence	7		
indonesia vice president communal violence	7		
indonesia kalla religion conflict	5		
indonesia kalla religious violence	12		
indonesia vice president religious fight	3		
indonesian vice president religion conflict	8		
indonesian kalla religious violence	12		
indonesia kalla peace religious violence	4		
indonesia kalla religious conflict	12	221	61

Country Indonesia Individual Vice President Kalla Conflict Anti-West Sentiment

indonesian kalla against christian	2		
indonesia vice president against united	25		
indonesia vice president anti west	9		
indonesian kalla against us	18		
indonesian kalla anti bush	1		
indonesia vice president protest united	1		
indonesia kalla against us	17		
indonesia vice president against bush	9		
indonesia kalla protest west	1		
indonesian vice president anti u s	5		
indonesia kalla against u s	12		
indonesian vice president against christian	2		
indonesia vice president anti united	5		
indonesia vice president anti america	4		
indonesia vice president against u s	18		
indonesian vice president against united	9		
indonesian vice president against west	1		
indonesian kalla against west	2		
indonesia vice president against america	3		
indonesian kalla against u s	13		
indonesia kalla anti bush	1		
indonesian vice president sentiment u s	1		
indonesian vp anti u s	1		
indonesia vice president protest us	3		
indonesian vp against u s	1		
indonesia kalla against christian	2		
indonesia vice president anti u s	8		
indonesian vice president demonstration united	1		
indonesia vp anti united	1		
indonesia vp anti us	7		
indonesia vp protest us	1		
indonesia kalla demonstration united	1		
indonesia vice president sentiment u s	1		
indonesian vice president against us	22		
indonesian vice president against u s	16		
indonesian vice president anti bush	1		
indonesia kalla against united	6		

Name	Count	Total Count	Unique Returns
indonesia vice president demonstration united	1		
indonesian vice president anti united	1		
indonesia vice president against christian	3		
indonesia vp against us	1		
indonesia kalla against west	2		
indonesian vice president anti us	11		
indonesia kalla anti u s	1		
indonesian vice president protest us	5		
indonesian kalla demonstration united	1		
indonesian vp anti us	6		
indonesia vp anti u s	1		
indonesian vice president anti west	10		
indonesia vice president anti bush	2		
indonesian kalla against united	7		
indonesian vice president demonstration west	1		
indonesia vp anti america	1		
indonesia vp against u s	6		
indonesian vp protest us	2		
indonesia vice president anti us	15		
indonesian vice president against bush	3		
indonesian kalla anti west	1		
indonesian kalla anti u s	1		
indonesia vice president against us	24		
indonesian kalla protest west	1	338	158
Country Indonesia Individual President Yudhoyono Terror Training Camps			
indonesian yudhoyono training terrorist	1	1	1
indonesia yudhoyono training terrorist	1	2	1
Country Indonesia Individual President Yudhoyono Terror Terror Attacks			
indonesian yudhoyono terror bomb	26		
indonesian sby terror attack	1		
indonesia yudhoyono jihad bomb	1		
indonesia sby terror attack	1		
indonesian yudhoyono jihad bomb	1		
indonesia yudhoyono terror bomb	34		
indonesian yudhoyono terror attack	80		
indonesia yudhoyono terror attack	80	224	123
Country Indonesia Individual President Yudhoyono Terror Jihad			
indonesian yudhoyono terrorism	530		
indonesian yudhoyono jihadist	1		
indonesia yudhoyono terrorist	450		
indonesian sby terrorist	11		
indonesia yudhoyono terror	646		
indonesia sby terrorism	20		
indonesian yudhoyono terror	581		
indonesian sby terror	15		
indonesian sby terrorism	20		

Name	Count	Total Count	Unique Returns
indonesia yudhoyono terrorism	548		
indonesian yudhoyono terrorist	412		
indonesia yudhoyono jihad	8		
indonesia sby terror	16		
indonesia sby terrorist	11		
indonesian yudhoyono jihad	9		
indonesia yudhoyono jihadist	1	3279	1306

Country Indonesia Individual President Yudhoyono Terror International Operatives

indonesia sby operatives	1		
indonesian sby operative	2		
indonesia yudhoyono terrorists	504		
indonesian sby terrorist	25		
indonesia yudhoyono terrorist international	12		
indonesian sby terrorists	12		
indonesian yudhoyono operative	11		
indonesian yudhoyono terrorists international	14		
indonesian yudhoyono terrorist international	11		
indonesia sby operative	2		
indonesian yudhoyono terrorists	456		
indonesia yudhoyono terrorists international	14		
indonesia yudhoyono terrorist	793		
indonesian sby operatives	1		
indonesia sby terrorist	24		
indonesian yudhoyono operatives	9		
indonesia sby terrorists	13		
indonesia yudhoyono operatives	13		
indonesia yudhoyono operative	13		
indonesian yudhoyono terrorist	726	2656	1053

Country Indonesia Individual President Yudhoyono Social Welfare

indonesia sby social welfare	1		
indonesian yudhoyono social welfare	17		
indonesian sby social welfare	1		
indonesia yudhoyono social welfare	14	33	18

Country Indonesia Individual President Yudhoyono Security Maritime

indonesian yudhoyono security maritime	8		
indonesian yudhoyono security sea	8		
indonesia yudhoyono security sea	6		
indonesia sby security port	1		
indonesian yudhoyono security port	1	24	18

Country Indonesia Individual President Yudhoyono Security Islamic Militias

indonesia yudhoyono security islamic militant	1		
indonesia president security islamic militants	7		
indonesian president security islamic militants	4		
indonesian yudhoyono security islamic militants	4		
indonesia president security islamic militant	1		

Name	Count	Total Count	Unique Returns
indonesia yudhoyono security islamic militants	4		
indonesian yudhoyono security islamic militant	1		
indonesian president security islamic militant	1	23	8

Country Indonesia Individual President Yudhoyono Security Foreign Investments

indonesia yudhoyono foreign investments	21		
indonesia sby fdi	8		
indonesian yudhoyono fdi	12		
indonesian sby foreign investments	1		
indonesian president foreign investment	286		
indonesian yudhoyono foreign investments	18		
indonesian president fdi	36		
indonesia sby foreign investment	11		
indonesian yudhoyono foreign investment	204		
indonesian president foreign investments	38		
indonesia yudhoyono foreign investment	294		
indonesia yudhoyono fdi	26		
indonesian sby fdi	2		
indonesia president fdi	61		
indonesia sby foreign investments	1		
indonesian sby foreign investment	6		
indonesia president foreign investment	461		
indonesia president foreign investments	69	1555	647

Country Indonesia Individual President Yudhoyono Security Defense Cooperation

indonesian president defense alliance	1		
indonesia yudhoyono defense relationship	1		
indonesia president defense relationship	8		
indonesian president defense relationship	4		
indonesia president defense cooperation	32		
indonesian president defense cooperation	16		
indonesia president defense alliance	4		
indonesian yudhoyono defense cooperation	13		
indonesian yudhoyono defense relationship	1	80	51

Country Indonesia Individual President Yudhoyono Security Counter-Terrorism

indonesian yudhoyono jihad	9		
indonesia sby terrorist	11		
indonesia sby terrorist	24		
indonesian yudhoyono terrorist	726		
indonesia yudhoyono terrorist international	12		
indonesia yudhoyono terrorists international	14		
indonesian sby terror	15		
indonesian sby terrorist	11		
indonesia sby terror	16		
indonesia yudhoyono terrorists	504		
indonesia yudhoyono jihad	8		
indonesia sby terrorism	20		
indonesia yudhoyono terrorist	793		

Name	Count	Total Count	Unique Returns
indonesian yudhoyono operative	11		
indonesian sby terrorist	25		
indonesian sby operative	2		
indonesian sby operatives	1		
indonesia yudhoyono operatives	13		
indonesia sby operatives	1		
indonesia yudhoyono jihadist	1		
indonesian yudhoyono terrorists	456		
indonesia yudhoyono terror	646		
indonesian yudhoyono terrorism	530		
indonesian sby terrorists	12		
indonesian yudhoyono terror	581		
indonesia yudhoyono operative	13		
indonesian yudhoyono terrorist international	11		
indonesian yudhoyono jihadist	1		
indonesia yudhoyono terrorist	450		
indonesia sby operative	2		
indonesian yudhoyono terrorists international	14		
indonesian yudhoyono operatives	9		
indonesia sby terrorists	13		
indonesian sby terrorism	20		
indonesia yudhoyono terrorism	548		
indonesian yudhoyono terrorist	412	5935	1732

Country Indonesia Individual President Yudhoyono Security Border

indonesia sby border security	2		
indonesia sby border	10		
indonesian yudhoyono border security	22		
indonesian yudhoyono border patrol	1		
indonesian sby border	10		
indonesian yudhoyono border	205		
indonesia yudhoyono border patrol	1		
indonesia yudhoyono border security	21		
indonesian sby border security	2		
indonesia yudhoyono border	200	474	220

Country Indonesia Individual President Yudhoyono Security Alliances

indonesia yudhoyono security cooperation	44		
indonesian sby security relationship	1		
indonesian president security cooperation	88		
indonesia yudhoyono security relationship	3		
indonesian sby security cooperation	1		
indonesia president security alliance	15		
indonesia sby security relationship	1		
indonesia president security alliances	2		
indonesian yudhoyono security cooperation	44		
indonesian yudhoyono security relationship	3		
indonesia president security relationship	15		
indonesian president security relationship	2		

Name	Count	Total Count	Unique Returns
indonesian president security alliance	4		
indonesia yudhoyono security alliance	1		
indonesia president security cooperation	160		
indonesian yudhoyono security alliance	1	385	229
Country Indonesia Individual President Yudhoyono Power Popularity			
indonesian yudhoyono popular	220		
indonesian sby popularity	41		
indonesia sby popular	36		
indonesia yudhoyono popular	277		
indonesia yudhoyono popularity	143		
indonesia sby popularity	38		
indonesian sby popular	39		
indonesian yudhoyono popularity	128	922	448
Country Indonesia Individual President Yudhoyono Power Political Party Balance			
indonesia yudhoyono political groups	1		
indonesian sby political parties	24		
indonesian yudhoyono political group	3		
indonesia yudhoyono political group	4		
indonesia sby political party	10		
indonesian sby political party	14		
indonesian yudhoyono political party	38		
indonesian yudhoyono political parties	72		
indonesian yudhoyono political groups	1		
indonesia yudhoyono political party	34		
indonesia yudhoyono political parties	69		
indonesia sby political parties	22	292	154
Country Indonesia Individual President Yudhoyono Power Balance between Muslim Factions			
indonesian sby muslims party	1		
indonesia sby muslim party	4		
indonesia yudhoyono muslim party	17		
indonesian sby muslim party	3		
indonesia sby muslims party	1		
indonesian yudhoyono muslim party	15	41	20
Country Indonesia Individual President Yudhoyono Law Sharia			
sby muslim law	1		
yudhoyono religious law	1		
indonesia islamic law	639		
indonesia muslim law	16		
indonesia religious law	24		
sby islamic law	15		
yudhoyono islamic law	12	708	681
Country Indonesia Individual President Yudhoyono Law Religious Tolerance			
indonesia religion tolerance	6		
yudhoyono religious tolerance	4		

Name	Count	Total Count	Unique Returns
indonesia religious tolerance	99		
indonesia religion tolerate	4	113	109
Country Indonesia Individual President Yudhoyono Law Jakarta Charter			
indonesia jakarta charter	41	41	41
Country Indonesia Individual President Yudhoyono Interest Groups Secular			
sby secular	2		
yudhoyono secular	22		
indonesia secular	442	466	452
Country Indonesia Individual President Yudhoyono Interest Groups Religious Organizations			
indonesian yudhoyono religion group	2		
indonesian sby religious groups	1		
indonesian yudhoyono religious organization	1		
indonesia sby religious organization	3		
indonesia yudhoyono religious groups	3		
indonesia yudhoyono religion group	2		
indonesian yudhoyono religious groups	2		
indonesia yudhoyono religious organization	1		
indonesia yudhoyono religious group	2		
indonesian yudhoyono religious group	2		
indonesia sby religious groups	1	20	11
Country Indonesia Individual President Yudhoyono Interest Groups Political Parties			
indonesian yudhoyono political parties	72		
indonesian yudhoyono political groups	1		
indonesia sby political parties	22		
indonesia yudhoyono political party	34		
indonesia yudhoyono political parties	69		
indonesian sby political parties	24		
indonesia yudhoyono political groups	1		
indonesian yudhoyono political group	3		
indonesia yudhoyono political group	4		
indonesia sby political party	10		
indonesian sby political party	14		
indonesian yudhoyono political party	38	292	154
Country Indonesia Individual President Yudhoyono Interest Groups Moderate Muslims			
indonesia yudhoyono moderate muslims	2		
indonesia yudhoyono moderate muslim	19		
indonesian yudhoyono moderate muslims	4		
indonesian yudhoyono moderate muslim	16	41	22
Country Indonesia Individual President Yudhoyono Interest Groups Islamists			
indonesia yudhoyono fundamentalist	1		
indonesia yudhoyono modernist	1		
indonesia yudhoyono islamist	20		
indonesian yudhoyono islamist	18		

Name	Count	Total Count	Unique Returns
indonesian yudhoyono modernist	1		
indonesia sby fundamentalist	1		
indonesian sby fundamentalist	1		
indonesian sby modernist	1	44	25
Country Indonesia Individual President Yudhoyono Interest Groups Christians			
sby christians	2		
yudhoyono christians	17		
indonesia christians	675	694	687
Country Indonesia Individual President Yudhoyono Education			
indonesia yudhoyono education	365		
indonesia sby school	22		
indonesian sby school	20		
indonesia yudhoyono school	163		
indonesia sby education	19		
indonesian yudhoyono educate	9		
indonesian yudhoyono school	144		
indonesian yudhoyono education	318		
indonesian sby education	21		
indonesia yudhoyono educate	10	1091	591
Country Indonesia Individual President Yudhoyono Economy Trade Tourism			
sby tourism	1		
indonesia tourism	889		
yudhoyono tourism	15	905	900
Country Indonesia Individual President Yudhoyono Economy Trade Imports-Exports			
indonesian sby trade	1		
indonesia yudhoyono export growth	3		
indonesian yudhoyono trade	123		
indonesian yudhoyono export growth	1		
indonesian sby import	3		
indonesia yudhoyono export	27		
indonesia sby trade	1		
indonesia yudhoyono trade	130		
indonesian yudhoyono trade increase	3		
indonesia sby import	1		
indonesia yudhoyono trade increase	3		
indonesian yudhoyono trade	123		
indonesian sby trade	1		
indonesia yudhoyono trade	130		
indonesia sby trade	1		
indonesian yudhoyono export	22		
indonesian yudhoyono import	15	588	184
Country Indonesia Individual President Yudhoyono Economy Trade Growth			
indonesia government export increase	90		
indonesia yudhoyono trade increase	3		

Name	Count	Total Count	Unique Returns
indonesia government export rise	38		
indonesian government export boost	10		
indonesia government export boost	28		
indonesia government export growth	171		
indonesian government export rise	16		
indonesian government export gain	2		
indonesian government export increase	38		
indonesian government export growth	39		
indonesian yudhoyono trade increase	3		
indonesia government export gain	23	461	342

Country Indonesia Individual President Yudhoyono Economy Trade Foreign Investments

indonesia sby foreign investments	1		
indonesia yudhoyono foreign investments	21		
indonesia sby fdi	8		
indonesia president foreign investments	69		
indonesian yudhoyono fdi	12		
indonesian president foreign investment	286		
indonesian sby foreign investments	1		
indonesian yudhoyono foreign investments	18		
indonesia sby foreign investment	11		
indonesian president fdi	36		
indonesian president foreign investments	38		
indonesian yudhoyono foreign investment	204		
indonesia yudhoyono foreign investment	294		
indonesia yudhoyono fdi	26		
indonesian sby fdi	2		
indonesia president fdi	61		
indonesian sby foreign investment	6		
indonesia president foreign investment	461	1555	647

Country Indonesia Individual President Yudhoyono Economy Trade Disruption

indonesia government trade decline	7		
indonesia government trade decrease	1		
indonesian government trade decline	2		
indonesia trade stop	7		
indonesia trade disrupt	3		
indonesian government trade reduction	2		
indonesia trade halt	4		
indonesia trade disruption	4		
indonesia government trade reduction	8	38	34

Country Indonesia Individual President Yudhoyono Conflict Separatist

indonesian sby separatist conflict	2		
indonesian yudhoyono opm conflict	1		
indonesia sby separatists conflict	1		
indonesian yudhoyono separatists fighting	4		
indonesia yudhoyono separatist struggle	4		
indonesian yudhoyono separatist fight	5		

Name	Count	Total Count	Unique Returns
indonesia yudhoyono separatist struggling	1		
indonesian yudhoyono separatists struggling	2		
indonesia yudhoyono separatists struggling	2		
indonesian yudhoyono separatist conflicts	13		
indonesia yudhoyono separatist conflicts	13		
indonesia yudhoyono separatists conflicts	1		
indonesia yudhoyono separatists fighting	7		
indonesia yudhoyono separatist conflict	51		
indonesia sby separatist conflict	1		
indonesia yudhoyono separatist fighting	15		
indonesian yudhoyono separatists conflict	3		
indonesian yudhoyono separatists conflicts	1		
indonesian yudhoyono separatist fighting	11		
indonesian yudhoyono separatist struggling	1		
indonesian yudhoyono separatist conflict	47		
indonesia yudhoyono separatist fight	10		
indonesian yudhoyono separatist struggle	4		
indonesia yudhoyono separatists conflict	4		
indonesian sby separatists conflict	1		
indonesia yudhoyono opm conflict	1	206	96
Country Indonesia Individual President Yudhoyono Conflict Religious			
indonesia talk religious violence	1		
indonesia military religious conflict	21		
indonesia response religious violence	1		
yudhoyono respond communal violence	1		
indonesia communal fight	5		
indonesia response religion violence	1		
indonesia react religion violence	1		
indonesia peace religion violence	13		
indonesia peace communal conflict	3		
indonesia talk religion conflict	1		
sby communal violence	1		
indonesia deploy religious conflict	1		
yudhoyono respond religious struggle	1		
yudhoyono religious struggle	1		
indonesia religious violence	326		
indonesia religious struggle	28		
yudhoyono response communal conflict	1		
indonesia military communal violence	4		
indonesia religion struggle	9		
yudhoyono response religious violence	1		
indonesia deploy communal conflict	1		
indonesia reaction religious struggle	1		
yudhoyono peace religion violence	1		
yudhoyono military religious fight	1		
indonesia military communal conflict	10		
yudhoyono peace communal violence	4		
indonesia peace religion fight	1		

Name	Count	Total Count	Unique Returns
indonesia peace religion struggle	1		
indonesia peace religion conflict	10		
indonesia peace religious struggle	3		
indonesia communal violence	60		
indonesia peace religious conflict	23		
indonesia troops religious violence	7		
yudhoyono response religion violence	1		
indonesia respond communal violence	1		
indonesia religion violence	104		
yudhoyono military religious conflict	1		
indonesia talk religion violence	1		
indonesia religion fight	13		
indonesia military religious fight	7		
indonesia react religious struggle	1		
indonesia troops communal violence	2		
yudhoyono peace religious conflict	11		
yudhoyono religious conflict	10		
indonesia peace religious violence	12		
yudhoyono religious violence	21		
indonesia military religion violence	3		
yudhoyono troops religious violence	3		
yudhoyono communal violence	8		
indonesia military religious violence	18		
indonesia military religion conflict	1		
indonesia talk religious conflict	1		
yudhoyono military religious violence	3		
indonesia react religious violence	1		
indonesia peace communal violence	3		
yudhoyono communal conflict	3		
indonesia response religious conflict	2		
indonesia religious fight	60		
indonesia troops communal conflict	2		
indonesia military religion fight	3		
yudhoyono response religious struggle	1		
yudhoyono religion violence	11		
yudhoyono religious fight	3		
indonesia reaction religion conflict	2		
sby religious conflict	3		
indonesia religious conflict	166		
indonesia troops religious conflict	3		
yudhoyono respond religious violence	1		
yudhoyono peace religious violence	2		
indonesia military religious struggle	2		
indonesia communal conflict	70		
indonesia reaction religious fight	1	1105	864
Country Indonesia Individual President Yudhoyono Conflict Anti-West Sentiment			
indonesian sby anti bush	1		
indonesia yudhoyono against west	12		

Name	Count	Total Count	Unique Returns
indonesia yudhoyono protest bush	30		
indonesia yudhoyono against u s	61		
indonesia yudhoyono against bush	20		
indonesia yudhoyono demonstration west	1		
indonesia yudhoyono against united	10		
indonesian sby anti us	3		
indonesia yudhoyono demonstration us	3		
indonesian yudhoyono protest united	7		
indonesian yudhoyono against bush	13		
indonesia yudhoyono protest west	1		
indonesia yudhoyono against america	1		
indonesian yudhoyono anti bush	7		
indonesia yudhoyono demonstration bush	1		
indonesian yudhoyono against u s	49		
indonesian yudhoyono against america	1		
indonesian yudhoyono anti west	3		
indonesia yudhoyono anti bush	9		
indonesia yudhoyono protest america	1		
indonesia yudhoyono protest united	7		
indonesian yudhoyono anti america	10		
indonesia sby protest u s	2		
indonesia yudhoyono protest u s	13		
indonesia yudhoyono anti america	11		
indonesian yudhoyono demonstration bush	1		
indonesian sby against us	3		
indonesian yudhoyono protest west	1		
indonesia sby against united	1		
indonesia yudhoyono against us	61		
indonesian yudhoyono anti christian	1		
indonesia yudhoyono anti u s	31		
indonesian yudhoyono anti us	16		
indonesian yudhoyono protest bush	31		
indonesian yudhoyono sentiment united	1		
indonesian sby protest u s	2		
indonesia sby against us	4		
indonesia yudhoyono anti united	2		
indonesia yudhoyono protest us	8		
indonesia sby against u s	1		
indonesian sby against united	1		
indonesian yudhoyono protest america	1		
indonesian sby protest bush	2		
indonesia yudhoyono anti west	3		
indonesian sby demonstration united	1		
indonesian yudhoyono demonstration us	3		
indonesian yudhoyono against us	50		
indonesian yudhoyono protest u s	13		
indonesian yudhoyono against united	9		
indonesian sby anti u s	1		
indonesian yudhoyono demonstration west	1		

Name	Count	Total Count	Unique Returns
indonesia yudhoyono against christian	1		
indonesia yudhoyono demonstration u s	1		
indonesian yudhoyono anti u s	30		
indonesia sby anti us	4		
indonesia yudhoyono sentiment united	1		
indonesia sby demonstration united	1		
indonesian yudhoyono anti united	2	566	282
Country Indonesia Group Jemaah Islamiyah Power Religious			
indonesia ji religious control	1	1	1
indonesian ji religious control	1	2	1
indonesia ji religious authority	1	3	2
indonesian ji religious authority	1	4	2
Country Indonesia Group Jemaah Islamiyah Power Popular Support			
group popular indonesia islamiyah support jemaah power country	44	44	44
Country Indonesia Group Jemaah Islamiyah Power Political			
indonesian ji political power	5		
indonesia ji political control	1		
indonesia ji political power	4		
indonesia islamiyah political power	2		
indonesian islamiyah political power	2	14	8
Country Indonesia Group Jemaah Islamiyah Mission Sharia			
indonesian jemaah islamic law	23		
indonesian islamiyah islamic law	18		
indonesian islamiyah shariah	5		
indonesian ji sharia	24		
indonesia islamiya islamic law	1		
indonesia islamiyah sharia	16		
indonesian ji islamic law	20		
indonesia ji sharia	26		
indonesian islamiyah sharia	17		
indonesia ji shariah	1		
indonesia jemaah shariah	4		
indonesia jemaah islamic law	22		
indonesia islamiyah islamic law	20		
indonesia islamiya sharia	1		
indonesian jemaah shariah	4		
indonesian jemaah sharia	22		
indonesia ji islamic law	20		
indonesia islamiyah shariah	5		
indonesian ji shariah	1		
indonesian islamiya islamic law	1		
indonesia jemaah sharia	20	271	101
Country Indonesia Group Jemaah Islamiyah Mission Recruitment			
indonesia islamiyah recruit	70		

Name	Count	Total Count	Unique Returns
indonesian islamiyah recruit	51		
indonesian jemaah recruit	77		
indonesia islamiya recruit	1		
indonesia jemaah recruit	93		
indonesia ji recruit	111		
indonesian ji recruit	93		
indonesian islamiya recruit	1	497	199

Country Indonesia Group Jemaah Islamiyah Mission Proselytizing

indonesia islamiyah proselytize	2		
indonesia jemaah proselytizing	3		
indonesian ji dakwah	3		
indonesian islamiyah proselytize	1		
indonesian jemaah proselytizing	3		
indonesia ji dakwah	2		
indonesian ji proselytizing	4		
indonesia islamiyah dakwah	3		
indonesian islamiyah proselytizing	5		
indonesian islamiyah dakwah	4		
indonesian jemaah dakwah	3		
indonesia ji proselytizing	4		
indonesia jemaah dakwah	4		
indonesia islamiyah proselytizing	5	46	17

Country Indonesia Group Jemaah Islamiyah Mission Islamic State

indonesia jemaah islamic state	173		
indonesian jemaah caliphate	5		
indonesian islamiya islamic state	3		
indonesian ji islamic state	111		
indonesia islamiya islamic state	5		
indonesia ji islamic state	125		
indonesia islamiyah caliphate	7		
indonesia ji caliphate	15		
indonesian jemaah islamic state	147		
indonesian islamiyah caliphate	4		
indonesian ji caliphate	8		
indonesian islamiyah islamic state	156		
indonesia jemaah caliphate	5		
indonesia islamiyah islamic state	183	947	360

Country Indonesia Group Jemaah Islamiyah Jihad Anti-Western

indonesia jemaah against america	17		
indonesian islamiyah anti us	8		
indonesian jemaah against u s	58		
indonesia jemaah against u s	50		
indonesian ji against us	39		
indonesia ji against u s	16		
indonesian islamiyah anti u s	35		
indonesia ji anti us	20		

Name	Count	Total Count	Unique Returns
indonesia islamiyah against u s	39		
indonesia jemaah anti america	5		
indonesia islamiyah bomb america	15		
indonesian islamiyah jihad u s	7		
indonesia islamiyah anti united	11		
indonesia jemaah bomb u s	254		
indonesia islamiyah anti america	3		
indonesian ji against america	3		
indonesian jemaah anti u s	36		
indonesian islamiyah against america	7		
indonesia jemaah anti us	7		
indonesian ji anti united	11		
indonesia islamiyah against america	10		
indonesian jemaah against us	30		
indonesian islamiya against us	1		
indonesia jemaah attack u s	177		
indonesia jemaah against west	26		
indonesia islamiyah war america	4		
indonesia jemaah anti united	13		
indonesia islamiya against us	1		
indonesian islamiya anti west	1		
indonesia islamiyah against united	26		
indonesia islamiyah anti west	2		
indonesia ji anti united	13		
indonesian jemaah anti united	9		
indonesia jemaah jihad u s	6		
indonesia islamiyah against west	16		
indonesia ji against united	24		
indonesia jemaah anti u s	37		
indonesia islamiyah against us	32		
indonesia islamiyah attack united	96		
indonesia islamiya attack us	6		
indonesia islamiyah fight united	6		
indonesian ji against u s	11		
indonesia jemaah anti west	8		
indonesian islamiyah anti west	5		
indonesian jemaah against united	21		
indonesian islamiya terror west	1		
indonesian ji anti us	21		
indonesia ji against us	44		
indonesia islamiyah anti us	9		
indonesian islamiyah against us	26		
indonesian islamiya against west	1		
indonesian islamiya anti us	2		
indonesia jemaah fight us	8		
indonesian ji bomb us	181		
indonesian islamiyah against united	21		
indonesian ji anti america	3		
indonesian islamiyah anti united	8		

Name	Count	Total Count	Unique Returns
indonesian ji anti u s	7		
indonesia ji holy war west	1		
indonesian jemaah against america	13		
indonesian islamiyah anti america	6		
indonesian jemaah anti us	7		
indonesia ji anti america	3		
indonesian jemaah bomb america	25		
indonesian islamiya anti u s	2		
indonesia ji anti u s	13		
indonesian ji against united	19		
indonesia islamiyah anti u s	31		
indonesia islamiya anti us	2		
indonesia islamiya against u s	5		
indonesia islamiya attack u s	17		
indonesia ji terror west	49		
indonesian jemaah anti west	11		
indonesian islamiya terror united	3		
indonesia islamiya anti west	1		
indonesia jemaah against united	26		
indonesia islamiya against west	1		
indonesian jemaah anti america	8		
indonesia jemaah against us	38		
indonesia ji against america	3		
indonesian islamiya against u s	6		
indonesian islamiyah against u s	49		
indonesian islamiyah against west	13		
indonesian jemaah attack america	20		
indonesia islamiya anti u s	8		
indonesia ji anti west	6		
indonesian ji attack america	5		
indonesia ji against west	30		
indonesian jemaah against west	23		
indonesian ji against west	28		
indonesian ji anti west	7	2033	1034
Country Indonesia Group Jemaah Islamiyah Jihad Anti-Government			
indonesia jemaah anti government	38		
indonesia islamiyah bomb government	128		
indonesian ji fight government	3		
indonesian islamiya terror government	8		
indonesian jemaah terror government	228		
indonesia ji against government	71		
indonesia ji fight government	17		
indonesian islamiya against government	1		
indonesia jemaah fight government	30		
indonesian ji against government	64		
indonesian islamiyah bomb government	136		
indonesian ji holy war government	8		
indonesian ji terror government	254		

Name	Count	Total Count	Unique Returns
indonesian islamiyah terror government	195		
indonesia ji holy war government	6		
indonesian jemaah against democratic	1		
indonesian ji fight government	15		
indonesia ji conflict government	4		
indonesian islamiyah oppose government	1		
indonesian ji bomb government	165		
indonesia jemaah attack government	158		
indonesia islamiya terror government	15		
indonesian jemaah holy war government	3		
indonesia jemaah against democratic	1		
indonesia jemaah against government	67		
indonesia islamiyah war government	40		
indonesian jemaah attack government	160		
indonesia jemaah terror government	250		
indonesian ji war government	42		
indonesia ji fight government	3		
indonesia jemaah jihad government	8		
indonesia jemaah oppose government	1		
indonesia islamiya against government	1		
indonesia jemaah war government	48		
indonesian islamiya anti government	1		
indonesian islamiyah anti government	26		
indonesia islamiya war government	1		
indonesia islamiyah terror government	210		
indonesian ji anti government	26		
indonesia jemaah holy war government	3		
indonesian islamiyah fight government	25		
indonesian jemaah fight government	21		
indonesian ji attack government	135		
indonesian islamiyah holy war government	4		
indonesian jemaah against government	72		
indonesia jemaah bomb government	165		
indonesia islamiya bomb government	6		
indonesian ji jihad government	15		
indonesian islamiyah war government	40		
indonesia ji terror government	267		
indonesia islamiya attack government	5		
indonesian islamiyah attack government	133		
indonesian jemaah oppose government	1		
indonesian jemaah fight government	2		
indonesia islamiya anti government	1		
indonesian islamiyah against government	63		
indonesia ji anti government	30		
indonesian jemaah war government	45		
indonesia islamiyah attack government	127		
indonesian jemaah anti government	31		
indonesia jemaah fight government	1		
indonesian islamiyah jihad government	5		

Name	Count	Total Count	Unique Returns
indonesian jemaah bomb government	172		
indonesia ji jihad government	16		
indonesia ji attack government	147		
indonesia ji bomb government	166		
indonesian islamiya attack government	4		
indonesian ji conflict government	4		
indonesia islamiyah jihad government	8		
indonesian jemaah jihad government	5		
indonesia islamiyah oppose government	1		
indonesia islamiyah against government	59		
indonesian islamiya bomb government	5		
indonesia islamiyah fight government	33		
indonesia ji war government	50		
indonesia islamiyah anti government	35	4336	1163

Country Indonesia Group Jemaah Islamiyah Jihad Anti-Christian

indonesia islamiyah bomb christian	39
indonesian islamiyah against christian	11
indonesia islamiyah against christian	16
indonesia islamiyah terror christian	39
indonesian islamiyah attack christian	38
indonesian islamiya bomb christian	3
indonesian islamiyah bomb christian	30
indonesia jemaah jihad christian	4
indonesian ji fight christian	2
indonesian islamiyah jihad christian	4
indonesia ji fight christian	2
indonesian jemaah jihad christian	3
indonesian jemaah terror christian	30
indonesia islamiya attack christian	2
indonesian ji anti christian	2
indonesia jemaah attack christian	58
indonesia jemaah against christian	18
indonesian islamiya attack christian	3
indonesian islamiyah terror christian	30
indonesian ji terror christian	24
indonesian ji bomb christian	35
indonesian islamiyah anti christian	2
indonesia ji war christian	1
indonesia ji anti christian	2
indonesian ji attack christian	37
indonesia islamiyah war christian	8
indonesia ji bomb christian	35
indonesian ji war christian	1
indonesia ji terror christian	23
indonesia islamiya bomb christian	1
indonesian ji against christian	9
indonesia islamiyah anti christian	2
indonesian jemaah bomb christian	55

Name	Count	Total Count	Unique Returns
indonesia jemaah terror christian	40		
indonesia jemaah anti christian	2		
indonesia islamiyah jihad christian	5		
indonesia ji attack christian	41		
indonesia ji jihad christian	5		
indonesia ji against christian	12		
indonesia jemaah bomb christian	59		
indonesia islamiyah attack christian	48		
indonesian jemaah against christian	14		
indonesian ji jihad christian	5		
indonesian jemaah war christian	12		
indonesian jemaah attack christian	44		
indonesian islamiyah war christian	8		
indonesian jemaah anti christian	2		
indonesia jemaah war christian	12	878	199

Country Indonesia Group Jemaah Islamiyah Interest Groups Religious Organizations

indonesian jemaah religious groups	1		
indonesia jemaah religious organization	1		
indonesian jemaah religious organization	1		
indonesian islamiyah religious organizations	2		
indonesian ji religious group	4		
indonesia jemaah religious group	3		
indonesia ji religious group	6		
indonesia islamiyah religious groups	1		
indonesian jemaah religious group	2		
indonesia ji religious groups	4		
indonesian islamiyah religious organization	1		
indonesian jemaah religious organizations	1		
indonesia islamiyah religious organization	1		
indonesian islamiyah religious group	1		
indonesian islamiyah religious groups	1		
indonesia jemaah religious groups	1		
indonesia jemaah religious organizations	1		
indonesia islamiyah religious group	2		
indonesian ji religious groups	1		
indonesia islamiyah religious organizations	2	37	10

Country Indonesia Group Jemaah Islamiyah Interest Groups Muslims involved in communal conflict

indonesia muslim communal conflict	2		
indonesia muslims communal conflict	2		
indonesian muslim communal conflict	2		
indonesian muslim religious fight	9		
indonesian muslims religious conflict	15		
indonesia muslims religious conflict	19		
indonesia muslim communal conflict	2		
indonesian muslim religious conflict	27		
indonesia muslim religious conflict	42		
indonesia muslims communal conflict	2		

Name	Count	Total Count	Unique Returns
indonesia muslims religious fight	7		
indonesia muslims religious conflict	19		
indonesian muslim communal conflict	2		
indonesian muslims communal conflict	2	152	64
Country Indonesia Group Jemaah Islamiyah Interest Groups Muslim Charities			
indonesia ji muslim charity	1		
indonesian ji muslim charity	1	2	1
Country Indonesia Group Jemaah Islamiyah Interest Groups Islamists			
indonesia jemaah fundamentalist	24		
indonesia ji salafist	3		
indonesian jemaah islamist	53		
indonesian ji salafi	4		
indonesian islamiyah fundamentalist	24		
indonesia ji salafi	4		
indonesia islamiyah fundamentalist	24		
indonesian jemaah salafi	1		
indonesian islamiyah salafi	2		
indonesian ji fundamentalist	45		
indonesia islamiya islamist	4		
indonesian islamiyah salafist	1		
indonesia ji islamist	41		
indonesian jemaah fundamentalist	18		
indonesia jemaah islamist	64		
indonesian islamiyah islamist	45		
indonesia islamiyah salafist	4		
indonesia jemaah salafist	18		
indonesia ji fundamentalist	46		
indonesia islamiyah islamist	51		
indonesia islamiya salafist	15		
indonesia islamiyah salafi	2		
indonesian islamiya islamist	4		
indonesian islamiya fundamentalist	2		
indonesia islamiya fundamentalist	2		
indonesian ji islamist	37		
indonesia jemaah salafi	1	539	210
Country Indonesia Group Jemaah Islamiyah Interest Groups Islamist Parties			
indonesia jemaah fundamentalist	24		
indonesian islamiya islamist	4		
indonesia ji salafi	4		
indonesia islamiyah salafi	2		
indonesia islamiya fundamentalist	2		
indonesian ji islamist	37		
indonesia jemaah salafi	1		
indonesia ji salafist	3		
indonesian ji salafi	4		
indonesia islamiya islamist	4		

Name	Count	Total Count	Unique Returns
indonesian islamiyah fundamentalist	24		
indonesia islamiyah fundamentalist	24		
indonesian jemaah salafi	1		
indonesian islamiyah salafi	2		
indonesian islamiya fundamentalist	2		
indonesian jemaah fundamentalist	18		
indonesian ji fundamentalist	45		
indonesian islamiyah salafist	1		
indonesia ji islamist	41		
indonesia jemaah islamist	64		
indonesian jemaah islamist	53		
indonesia islamiya salafist	15		
indonesia islamiyah salafist	4		
indonesia jemaah salafist	18		
indonesia ji fundamentalist	46		
indonesian islamiyah islamist	45		
indonesia islamiyah islamist	51		
Country Indonesia Group Jemaah Islamiyah Interest Groups Islamic Militias			
indonesian islamiyah islamic militias	1		
indonesian ji islamic militias	1		
indonesia islamiya islamic militants	2		
indonesia islamiyah islamic militia	1		
indonesia islamiyah islamic militias	1		
indonesia islamiyah islamic militants	67		
indonesian islamiyah islamic militant	83		
indonesian ji islamic militant	44		
indonesia jemaah islamic militia	1		
indonesian ji islamic militants	51		
indonesia ji islamic militants	63		
indonesian jemaah islamic militant	92		
indonesian jemaah islamic militants	63		
indonesia ji islamic militias	1		
indonesian islamiyah islamic militants	56		
indonesia jemaah islamic militant	109		
indonesia jemaah islamic militants	73		
indonesia islamiyah islamic militant	99		
indonesia ji islamic militant	58		
indonesian islamiya islamic militants	3	869	290
Country Indonesia Group Jemaah Islamiyah Interest Groups Criminal Organizations			
group interest indonesia islamiyah criminal organizations jemaah groups counti	14	14	14
Country Indonesia Group Jemaah Islamiyah Education Religious			
indonesia ji religion school	1		
indonesian ji religion school	1	2	1
Country Indonesia Group Islamist Power Religious			
indonesian fundamentalist religious command	1		

Name	Count	Total Count	Unique Returns
indonesia fundamentalist religious command	1		
indonesia islamist religious control	1		
indonesia islamist religious authority	3		
indonesian islamist religious authority	1	7	5
Country Indonesia Group Islamist Power Popular Support			
indonesia salafi popular	1		
indonesia modernist popular	2		
indonesian fundamentalist popularity	1		
indonesia islamist popular	46		
indonesian islamist popular	20		
indonesia fundamentalist popular	9		
indonesian fundamentalist popular	3		
indonesia fundamentalist popularity	5		
indonesian islamist popularity	2		
indonesia islamist popularity	7		
indonesian modernist popular	2	98	65
Country Indonesia Group Islamist Power Political			
indonesia fundamentalist political power	5		
indonesia modernist political power	1		
indonesia islamist political power	8		
indonesia fundamentalist political control	1		
indonesia islamist political command	1		
indonesian fundamentalist political power	3		
indonesia islamist political control	1		
indonesian islamist political power	5		
indonesia salafi political power	1		
indonesia islamist political authority	1		
indonesian islamist political control	1		
indonesian salafi political power	1	29	18
Country Indonesia Group Islamist Mission Sharia			
indonesian fundamentalist shariah	2		
indonesia islamist shariah	10		
indonesia islamist islamic law	27		
indonesia fundamentalist islamic law	24		
indonesia fundamentalist goal islamic law	1		
indonesia islamist sharia	39		
indonesian modernist sharia	3		
indonesian salafi sharia	1		
indonesian islamist islamic law	15		
indonesian islamist shariah	8		
indonesia salafi shariah	1		
indonesian salafi islamic law	4		
indonesian fundamentalist goal islamic law	1		
indonesia modernist islamic law	1		
indonesian salafi shariah	1		
indonesia fundamentalist goal sharia	1		

Name	Count	Total Count	Unique Returns
indonesia islamist religious law	1		
indonesia salafi islamic law	6		
indonesia salafi sharia	2		
indonesian fundamentalist goal sharia	1		
indonesia fundamentalist sharia	21		
indonesian fundamentalist islamic law	16		
indonesia islamist goal sharia	1		
indonesian fundamentalist sharia	16		
indonesia modernist sharia	4		
indonesian modernist islamic law	1		
indonesian islamist sharia	18		
indonesia fundamentalist shariah	6	232	130
Country Indonesia Group Islamist Mission Recruitment			
indonesia fundamentalist recruit	8		
indonesia islamist recruit	23		
indonesia salafist recruit	2		
indonesia salafi recruit	3		
indonesian islamist recruit	13		
indonesian fundamentalist recruit	6		
indonesian salafi recruit	2	57	40
Country Indonesia Group Islamist Mission Proselytizing			
indonesia salafi dakwah	2		
indonesia islamist dakwah	2		
indonesian modernist dakwah	1		
indonesia modernist dakwah	1		
indonesian islamist proselytizing	2		
indonesian salafi dakwah	2		
indonesia islamist proselytizing	2		
indonesia salafist proselytizing	1	13	8
Country Indonesia Group Islamist Mission Islamic State			
indonesian islamist islamic state	4		
indonesian islamist caliphate	9		
indonesia salafist caliphate	1		
indonesia fundamentalist islamic state	43		
indonesian salafi islamic state	1		
indonesian fundamentalist darul islam	4		
indonesia salafi caliphate	1		
indonesia islamist caliphate	18		
indonesia fundamentalist darul islam	4		
indonesia islamist islamic state	8		
indonesian islamist darul islam	4		
indonesia islamist darul islam	4		
indonesian fundamentalist islamic state	36		
indonesia fundamentalist caliphate	5		
indonesia salafi islamic state	1	143	84

Name	Count	Total Count	Unique Returns
Country Indonesia Group Islamist Jihad Anti-Western			
indonesian fundamentalist against west	3		
indonesia salafi anti us	1		
indonesian islamist against america	2		
indonesia salafist against us	1		
indonesian modernist anti us	1		
indonesia islamist against us	8		
indonesia islamist anti us	7		
indonesian islamist against united	4		
indonesia fundamentalist bomb u s	2		
indonesian islamist fight u s	2		
indonesian fundamentalist anti america	4		
indonesia fundamentalist war u s	8		
indonesia modernist anti us	1		
indonesia salafi terrorism u s	2		
indonesian fundamentalist against u s	5		
indonesia fundamentalist terrorism u s	2		
indonesia fundamentalist jihad u s	2		
indonesia islamist bombing u s	6		
indonesia fundamentalist attacks u s	5		
indonesia salafist war u s	1		
indonesia islamist attacks u s	16		
indonesia modernist against west	1		
indonesian salafi against west	1		
indonesia fundamentalist terror u s	7		
indonesia fundamentalist against us	4		
indonesia salafi bomb u s	2		
indonesian islamist terror u s	17		
indonesian islamist anti us	4		
indonesia fundamentalist attack u s	6		
indonesian islamist bombing u s	1		
indonesia fundamentalist against u s	11		
indonesian modernist against us	1		
indonesian salafi against us	1		
indonesian islamist anti west	4		
indonesia salafi war u s	1		
indonesian fundamentalist anti us	2		
indonesian islamist holy war america	2		
indonesia salafist fight u s	1		
indonesian fundamentalist anti west	5		
indonesia islamist against u s	14		
indonesian islamist anti u s	6		
indonesia fundamentalist against west	9		
indonesia salafist terror u s	1		
indonesia fundamentalist anti west	8		
indonesia salafi against us	3		
indonesian fundamentalist jihad u s	1		
indonesia islamist anti united	1		
indonesian islamist war u s	1		

Name	Count	Total Count	Unique Returns
indonesian fundamentalist against america	1		
indonesian salafi against united	1		
indonesia fundamentalist against united	2		
indonesian salafi jihad u s	2		
indonesian salafi anti us	1		
indonesia fundamentalist anti u s	6		
indonesia salafi against west	1		
indonesia islamist holy war america	1		
indonesia islamist against west	15		
indonesian islamist against u s	3		
indonesian modernist fight u s	1		
indonesia islamist anti u s	10		
indonesia islamist terror u s	38		
indonesia islamist against america	4		
indonesia modernist against us	1		
indonesia islamist anti america	22		
indonesia fundamentalist fight u s	2		
indonesian salafi anti west	1		
indonesian salafist bomb u s	1		
indonesia islamist against united	12		
indonesia fundamentalist anti america	7		
indonesian islamist anti america	9		
indonesia fundamentalist bombing u s	3		
indonesia fundamentalist anti united	1		
indonesian islamist against west	3		
indonesian salafist war u s	1		
indonesia fundamentalist anti us	7		
indonesia islamist anti west	10		
indonesian fundamentalist against us	5		
indonesia salafi anti west	1		
indonesia islamist attack u s	26		
indonesia modernist fight u s	1		
indonesian salafi terrorism u s	2		
indonesia fundamentalist against america	4		
indonesia salafi against united	1		
indonesian fundamentalist attack u s	4		
indonesian islamist against us	8	416	243
Country Indonesia Group Islamist Jihad Anti-Government			
indonesia fundamentalist oppose government	2		
indonesia salafist fight government	3		
indonesia salafi fight government	1		
indonesia islamist oppose government	1		
indonesian fundamentalist oppose government	1		
indonesian salafist fight government	3		
indonesia fundamentalist anti democratic	2		
indonesian fundamentalist conflict government	2		
indonesian islamist fight government	11		
indonesian salafi jihad government	2		

Name	Count	Total Count	Unique Returns
indonesia fundamentalist fight government	7		
indonesia islamist jihad government	11		
indonesian islamist conflict government	5		
indonesia fundamentalist jihad government	2		
indonesian islamist jihad government	9		
indonesia fundamentalist conflict government	4		
indonesia salafi jihad government	2		
indonesian fundamentalist fight government	1		
indonesian salafist jihad government	1		
indonesia salafist jihad government	1		
indonesia islamist fight government	15		
indonesia islamist conflict government	17	103	59

Country Indonesia Group Islamist Jihad Anti-Christian

indonesia fundamentalist bombing christian	2
indonesia fundamentalist anti christian	2
indonesia islamist war christian	9
indonesian fundamentalist terror christian	2
indonesian islamist fight christians	2
indonesia salafi fight christian	1
indonesian islamist against christian	4
indonesia islamist jihad christians	2
indonesia islamist terror christian	11
indonesia fundamentalist bomb christian	2
indonesia fundamentalist terrorism christian	1
indonesia fundamentalist jihad christians	1
indonesia islamist bomb christian	8
indonesian islamist war christian	4
indonesia fundamentalist attack christians	1
indonesian modernist anti christian	1
indonesia islamist attack christian	9
indonesia fundamentalist against christians	1
indonesian fundamentalist war christians	2
indonesian islamist attack christians	2
indonesia islamist bombing christian	3
indonesia islamist jihad christian	6
indonesia fundamentalist attack christian	4
indonesia modernist anti christian	1
indonesian islamist against christians	3
indonesia islamist war christians	7
indonesian fundamentalist jihad christians	2
indonesian fundamentalist against christian	1
indonesia fundamentalist war christian	4
indonesia islamist bombing christians	1
indonesia islamist against christian	8
indonesia islamist terror christians	4
indonesian fundamentalist jihad christian	5
indonesian islamist holy war christians	1
indonesia islamist attack christians	2

Name	Count	Total Count	Unique Returns
indonesian fundamentalist war christian	2		
indonesia islamist fight christians	2		
indonesia salafi fight christians	1		
indonesia fundamentalist war christians	2		
indonesia islamist holy war christians	1		
indonesia fundamentalist attacks christian	4		
indonesia fundamentalist jihad christian	5		
indonesian islamist jihad christians	2		
indonesian islamist terror christians	1		
indonesia islamist attacks christians	3		
indonesian islamist terror christian	7		
indonesian islamist attack christian	6		
indonesian fundamentalist bomb christian	2		
indonesian islamist jihad christian	4		
indonesian islamist attacks christian	2		
indonesian fundamentalist bombing christian	2		
indonesia islamist terrorism christian	2		
indonesian islamist bomb christian	6		
indonesia islamist terrorism christians	2		
indonesian fundamentalist attack christian	3		
indonesian islamist war christians	4		
indonesia islamist attacks christian	2		
indonesia fundamentalist against christian	2		
indonesia islamist against christians	6		
indonesian fundamentalist attacks christian	4		
indonesian islamist bombing christian	2		
indonesia fundamentalist terror christian	2	200	64
Country Indonesia Group Islamist Interest Groups Religious Organizations			
indonesia islamist religious group	1		
indonesia fundamentalist religious groups	25		
indonesia fundamentalist religious group	5		
indonesian fundamentalist religion groups	1		
indonesian islamist religious groups	1		
indonesian fundamentalist religious groups	5		
indonesian fundamentalist religious group	1		
indonesian islamist religious organization	1		
indonesia islamist religious organization	1		
indonesia fundamentalist religion groups	1		
indonesian islamist religious group	2	44	34
Country Indonesia Group Islamist Interest Groups Muslims involved in communal conflict			
islamist muslims communal group conflict groups involved indonesia country in	4	4	4
Country Indonesia Group Islamist Interest Groups Muslim Charities			
interest islamist indonesia muslim charities groups group country	12	12	12
Country Indonesia Group Islamist Interest Groups Islamists			
indonesian salafi	99		

Name	Count	Total Count	Unique Returns
indonesian fundamentalist	694		
indonesia modernist modernist	14		
indonesia fundamentalist salafi	5		
indonesia salafi salafist	2		
indonesia salafi islamist	7		
indonesia salafi salafi	17		
indonesian modernist islamist	1		
indonesia islamist islamist	223		
indonesia salafist	128		
indonesia modernist	845		
indonesia salafi	130		
indonesian salafi islamist	3		
indonesian islamist	1222		
indonesian modernist	918		
indonesia fundamentalist modernist	3		
indonesian fundamentalist salafist	1		
indonesian fundamentalist fundamentalist	32		
indonesian fundamentalist modernist	1		
indonesian salafist	68		
indonesia islamist	2489		
indonesian salafi salafist	2		
indonesian salafist islamist	3		
indonesia salafist islamist	4		
indonesian salafi salafi	15		
indonesia fundamentalist	1438		
indonesian fundamentalist islamist	15		
indonesia fundamentalist salafist	1		
indonesian islamist islamist	120		
indonesian fundamentalist salafi	7		
indonesia fundamentalist fundamentalist	62		
indonesia modernist islamist	1		
indonesia fundamentalist islamist	38		
indonesian modernist modernist	8		
indonesian salafist salafist	9		
indonesia salafist salafist	7	8632	5206
Country Indonesia Group Islamist Interest Groups Islamist Parties			
indonesia islamist islamist parties	15		
indonesian fundamentalist islamist parties	1		
indonesian islamist islamist parties	8		
indonesia modernist islamist party	1		
indonesia islamist islamist party	5		
indonesia fundamentalist islamist parties	1		
indonesian islamist islamist party	3		
indonesian modernist islamist party	1	35	21
Country Indonesia Group Islamist Interest Groups Islamic Militias			
indonesia islamist islamic militia	2		
indonesia salafist islamic militants	1		

Name	Count	Total Count	Unique Returns
indonesia fundamentalist islamic militant	1		
indonesia fundamentalist islamic militias	1		
indonesian islamist islamic militants	6		
indonesian salafi islamic militant	2		
indonesia fundamentalist islamic militants	1		
indonesia islamist islamic militant	18		
indonesia salafi islamic militant	2		
indonesia salafist islamic militant	1		
indonesian islamist islamic militant	8		
indonesia islamist islamic militants	13		
indonesia fundamentalist islamic militia	4	60	34