Attack Scenario_EN(AS)

YJ Lee VL Kang														
K CHOI														
H Han			Attack Scenario							Defect Exists	Inherent defect, not sure wheth	er this defects degrades seco	urity attributes> need brainstorn	ming
V Cha			Attack Scenario							In Progress	Attack is in progress			
Lee						Dec. 1	lates d			Attack Fail	Failure on attacker's perspective			
						Requires penetration	Introduced in presentation			Attack Sucess	Success on attacker's perspect	ive		
ID	Reconnaissance Phase	Condition	Vulnerability	Attack Scenario		Attack Difficulty		How to test?	Threat (Expected result by attack)	Status	Mitigation (Recommendation)	Discussion		
NS-00 kample)	How did we find out? (Analysis documents, Code Review, nmap, packet sniffing, Nessus, etc.)	/LgFeceRecDemoTCP_Jetson_Nano V2 20000 (invalid port num))	except 5000)	(e.g., Run a daemon which occpies port 5000)	Grading: 1~5 1: low impact 5: high impact	Grading: 1~5 1: hard 5: easy	Priority = Impact x Difficulty	Test Tool (Metasploit, Zuff, Peach, etc.)						
S-15	Team 6 Artifacts - Source Code : Manual Code Review	during connection establishing	Sniffing - there are 4 sockets in a port to connection but log in is conducted only in first socket.	timing attack it could be sniff if attacker connect to another socket after first socket is connected.	5	5	25	Timing attack by giving a delay such as sleep, input, etc.	extract video from camera	Attack Success	Use a session ID or similar value to synchronize 4 connections Authenticate all 4 connections			
S-13	Team 6 Artifacts - Source Code : Manual Code Review	run the client app	Denial of Service, Information disclosure server IP in remote.config file is a plaintext	immune the remote.config file by mutating fuzzy	4	5	20	Open client application w/ compromised remote. config file	A client application terminated	Attack Success	store config file in secure storage lock server ip address with encryption			
S-30	Team 6 Artifacts - Source Code : Manual Code Review	when press 'pause' button to enter Learning mode	Any faces can be the candidate to save no matter what if the face is already registered. That is, a person can have different names	Try to save recognized faces again with another name	4	5	20	Save a face press pause button when that face is shown and recognized.		Attack Success - Already recognized face ca be saved again with another name	do NOT allow to set a name for already recognized face	is it security issue?? about personal info??		
S-16	Team 6 Artifacts - Source Code : Manual Code Review	during connection establishing	Same as above (AS-15)	timing attack If we keep trying to connect, your connection will be confused.	3	5	15	Timing attack by giving a delay such as sleep, input, etc.	DoS. Server dead.	Attack Success	add multiple connections and incorrect connections handling			
S-20	Team 6 Artifacts - Source Code : Manual Code Review	when client request connection	no consideration for the several connection attempt of clients simultaneously	what happens if several client try to connect to server at the same time?	3	5	15	Open two or more client applications Press 'Login' at the same time	DoS. Server dead.	Attack Success	add multiple connections and incorrect connections handling			
5-22	Security Testing - nmap (network	when server is listening port	there is no recovery logic when falled to	any application requests to connect port 5000	3	5	15	run nmap command to scan the server port (nmap -sV 192.168.0.100)	the server is terminated abnormally	Attack Success	re-open listening port again after handshaking fail			
	scanner) Team 6 Artifacts - Source Code	client login	handshaking	Users are not aware of tampering camera content, etc.				(nmap -sV 192.168.0.100)	,		after handshaking fail			
3-24	: Manual Code Review Team 6 Artifacts - Threat Modeling	when start the server program	Does not show video from camera when face recognition for login Denial of Service	Shouldn't we show the screen currently used for recognition? There is already daemon which occupy camera by	3	5	15	start the another video program before starting		Defect Exists				
3-02			(Camera Unit crashes, halts, stops or runs slowly, in all cases violating an availability metric.)	exclusively accessing to /dev/video device	4	3	12	server	cannot open camera device	Attack Success (Prerequisite: Penetration of PW crack)				
S-04		or already connecting established	Denial of Service	DoS attack to server	4	3	12	ICMP Ping Command, or using the DDos Attack Tools like following Solar/Winds SEM Tool, HULK, Tor's Hammer, Slowloris, LOIC, XOIC	Connection to server fails	Attack Success				
S-06	Security Testing - Test Case(?)	Server accepts only port 5000	Denial of Service	run the another daemon which use port 5000 before the server running	4	3	12	build and inject a program that binds to 5000 port (e.g., using python)	Unable to run server application	Attack Success				
S-09	Team 6 Artifacts - Source Code : Manual Code Review	while run the server	Denial of Service - there is no jpeg file format checking after loading encrypted image file	insert encrypted dummy data(not jpeg format) into asset/imgs folder	4	3	12	creat a file with dummy data using a function enc. ssl. mf in liboertcheck.a. mv a new file into asset/limgs folder run server application	Server terminated with assertion fail on decoding image using openCV library	Attack Success	add a sequence to check if the data is jpeg format			
i-12	Team 6 Artifacts - Source Code : Manual Code Review	while client request connection	Denial of Service credendial file, which contains id and pw, is not secured. anybody can see it. (/asset/credential has ID and password)	client cannot log in to server if remove the credential file or modify the contents as invalid.	4	3	12	method 1. just remove credential file method 2. compromise credential file using ZZUF	admin cannot login to server	Attack Success method 1 - Could not load credential file method 2 - Could not load credential file	store credential file in secure storage.			
S-28	Security Testing - nmap (network scanner)	server (Jetson Nano) runs openssh, rcpbinds, and ms-wbt-server	Elevation of privilege by exploiting third-party applications' known vulnerabilities	an attacker searches known vulnerabilities of openssh, ropbinds, and ms-wbt-server using metasploit and exploit the vulnerabilities	4	3	12	nmap to find vulnerable services exploit the found vulnerabilities using metasploit	elevated privilege enables various attacks: denial of service, tampering, information disclosure	Attack Fail				
S-05	Team 6 Artifacts - Security RQ, Source code : Manual Code Review	Run the client app	There is a checking validation code for password but it seems to not handle all exception cases.	Input invalid data	5	2	10	Analyze code vulnerabilities. Zuff		Attack Fail		Could not found some code vulnerabilities for attack. And it's not easy to use zut without code modification because the client runs on off application		
.S-10	Team 6 Artifacts - Security RQ, System Archtecture	When establishing a TLS connection.	Certificates and keys are being stored insecurely	Using the stolen certificates and keys, other clients can access the server.	5	2	10	Steal the certificate Another application, malformed one, tries to establish a TLS connection with the stolen certificate.				S		
S-25	Team 6 Artifacts - Source Code : Manual Code Review	client login	the loop of checking empty frame from the camera	If the camera sends empty frames continuously in the login procedure, the server hangs.	3	3	9			Defect Exists				
	: Manual Code Review Team 6 Artifacts - Security RO	After connection success, sending	Server application seems not to check input	login procedure, the server hangs. Renlay attack				Wireshark						
-03	,	data to server	validation received from client app		2	3	6			Attack Fail				
i-23	Team 6 Artifacts - Source Code : Manual Code Review	Run the client app	A file for configuration server address can be modified and there are checking validation code but it seems to not handle all exception cases.	Modify remote.config to connect with a take server. The take server can sniff a user id/passwood and images.	3	2	6	Run a fake server on virtual machine Modify remote config to connect with the fake server Need to elevate privilege because other users doesn't have permission about the keys.	Privacy disclosure. User id and password send to a malicious server.	Attack Success	Use secure storage and if not run the program, the secure storage shall be unmounted if can the server application or the client application should have device authentication logic.			
-01	Team 6 Artifacts - Source Code : Manual Code Review	when press 'pause' button to enter Learning mode	when there are several 'New Person' in video, client cannot show everyone's recognition window because meta data reports its size as 1 (app.cpp line121)	press 'pause' button when there are more than two 'New Person' in video	1	5	5	Login on Client Press 'Pause' when many new faces are seen in a video.	Another face can be stored	Defect Exists - Another face can be stored	only one new face is allowed to register a name	Is it secure issue?		
3-08	Team 6 Artifacts - Security RQ	Communicate server and client	(app.cpp line (21) Certificate & Keys are not in secure storage	Remove or modify to Certificate & Keys created as artifacts in the client application built.	5	1	5	Remove directory of keys or files in the directory . Need to elevate privilege because other users doesn't have permission about the keys.		Attack Success	Use secure storage and if not run the program, the secure storage shall be unmounted			
S-14	Team 6 Artifacts - Security RQ, System Archtecture		Images are being stored insecurely.	The attacker tries to delete the image.	5	1	5	Delete the image from the file system.	A client cannot recognize the registered face					
S-17	Team 6 Artifacts - Source Code : Manual Code Review and PnG case 1	client login	there is no authentication for input stream	attacker had worked for the system but fired now attacker already knew the ID and PW although his face was unregistered from admin, now attacker feeds recorded another admin video file into /dev/video instead real camera input after that attacker can logn to server	5	1	5	try replace input stream for server to video file from camera input ref: https://askubuntu.com/questions/881305/is- there-any-way-ffmpeg-send-video-to-dey-video0- on-ubuntu						
S-19	Team 6 Artifacts - Source Code : Manual Code Review	running on test mode	no process after running file is finished.	what happens if a test file plays to the end?	1	5	5	After login, change to the test mode Test Wait until the video is finished	stay on paused at the last frame. Not terminated.	Defects - Connection terminated. Needs re-login	fix sequence NOT to logout			
i-21	Team 6 Artifacts - Static Analysis	Static Analysis Document	_/cmu_project/source/server/src/faceNet.cpp: 311: [1] (buffer) strien: Does not handle strings that are not \u00f80-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	If null character is NOT inserted between name and image data during data encoding to save an image? OR if face data is tampered by attackers?	5	1	5	in the sourcecode, remove adding null character during incoding images Add a new image with a name at the client Restart server	crash is occurred while starting server application	Attack Success - Condition: Attacker can modify the sourcecode				
3-26	Team 6 Artifacts - Source Code	Static Analysis	Invalid free, Memory leak		5	1	5		DoS, the client app is terminated	Defect Exists	See manual code review sheet			
27	: Manual Code Review Team 6 Artifacts - System Architecture	access to img folder, steal image files	information disclosure of private data (picture data of registered person)	an attacker accesses to img folder, steal image files and and decrypt them	5	1	5	Get encrypted image files Un-hash the image files using rainbow table	abnormally Information disclosure of personal	Attack Fail				
				(image files are encrypted)			,		information	Autour Fall				
-18	Team 6 Artifacts - Source Code : Manual Code Review	when press 'save face' button	pre-condition: id/pw is replaced to another one by attackers (ex. attacker1/qwer1234!, NOT admin) when a new face is stored with a name of replaced id (attacker1), even that face can be used at the login stage as well.	Login using replaced credential file. Save a new face to server will a name as same as replaced id, then log out. Try log in again w/ the new face	4	1	4	1. Replace credential file for new id/pw (ex. attacker i (qwer 1234) wi encryption as written in AS-29 2. Save a new face to server wi a name as same as replaced id (attacker 1), then log out. 3. Try log in again w/ the new face	log in success using a new face who is not an admin	Attack Success - Condition: AS-29 is performed successfully				
S-29	Team 6 Artifacts - Source Code : Manual Code Review	while client request connection	Denial of Service credendial file, which contains id and pw, is not secured, so that it can be replaced to another id and password (//asset/credential has ID and password)	client cannot log in to server with admin id if the credential file is replaced to another valid one.	4	1	4	login using admin and save a new face with a name of attacker (ex. attacker1). Create a credential file for attacker1 with password using a function enc_ssl_mir in liberathceks. 3. replace a credential file to new one, then try to log in with attacker1.	admin cannot login to server. another id can.	Attack Success - Condition: Attacker knows the salt value	change the salt value periodically, and make new credential with new salt vale			

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DH Han			Attack Scenario							Defect Exists	Inherent defect, not sure whether	er this defects degrades security attributes -	> need brainstorming
SW Cha			Attack Scenario							In Progress	Attack is in progress		
SJ Lee										Attack Fail	Failure on attacker's perspective		
						Requires penetration	Introduced in presentation			Attack Sucess	Success on attacker's perspecti	ve	
ID	Reconnaissance Phase	Condition	Vulnerability	Attack Scenario	Attack Impact	Attack Difficulty	Attack Priority	How to test?	Threat (Expected result by attack)	Status	Mitigation (Recommendation)	Discussion	
AS-00	How did we find out? (Analysis documents, Code Review, nmap, packet sniffing, Nessus, etc.)	Reproducible Situation (e.g., Server Application runs with LgFaceRecDemoTCP_Jetson_Nano V2 20000 (invalid port num))	except 5000)	(e.g., Run a daemon which occpies port 5000)	1 : low impact	Grading: 1~5 1: hard 5: easy	Priority = Impact x Difficulty	Test Tool (Metaspiolt, Zuff, Peach, etc.)					
	Team 6 Artifacts - Source Code : Manual Code Review	software is not obfuscated	ID/PW are checked only one time, so one-block detour enables to avoid authentication	disassemble and patch binary	5	1		Disassemble the server software using rizh Find out the authentication function and modify it to always return true	t unauthorized user can access the system with invalid ID and password	Attack Success	Obfuscate binaries Repeatedly use uthentication credentials (e.g., use hashed ID and PW as authentication token and server keeps requesting it for every functionality)		
AS-07	Team 6 Artifacts - Security RQ	Communicate server and client	TLS1-2-Münerability POODLE/Fiedding-Oreole-On-Downloaded- Legacy-Energytion). SLOTH/Security-Losses- from Obsolete and Truncated Transcript Hashes). 3233 DROWN(Deerypting RSA with- Obsolete and Weakened eNeryption)	Spoof-packet			0	Wireshark – MITM		N/A		When analyzing document, it was written the spec of comm. as protoco Ishall be over TLS1.2. If it use TLS1.2. If it use TLS1.2, thed to found vulnerabilities of TLS1.2 but actually the project uses TLS1.3.	
	Team 6 Artifacts - Source Code Manual Code Review	when run the server	if there is a vulnerability of function- g_ascii_strtoli	cause buffer overflow using long string as an input for the port number			0	run server application w/ port number as a string- which starts with 5000					

o project and	d then find missing ite	1115.					
Written by To							
Cheked and	Anaylzed byTeam 5						
TR-ID	Threat	Review	SR-ID	Security Requirement	MI-ID(matched to SR-ID)	Mitigation	Evaluation by 5 -> Evaluate T SR and MI
TR-01	If the user credential data is stored as plain text, it can be disclosed.	User credential should be kept securely	SR-13, SR-12	User Credential Data should be encrypted in the storage. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-07	Encrypt user credential data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc of gcm mode Integrity Check with hash - Use an alforithm that are stronger than sha256	
TR-02	An attacker modify user credential data.	User credential should be kept securely	SR-11, SR-10 SR-12	the system shall know the change of the user credential data. The system must perform an integrity check before using user credentials. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-07	Integrity Check with hash function - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than sha256 Encrypt user credential data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc of gcm mode	
TR-03	An attacker modify user credential data and then server can use it without checking.	User credential should be kept securely	SR-11, SR-09, *No matching SR	the system shall know the change of the user credential data. Server and client must communicate using an encrypted channel. Input validation check is required in Server side.	MI-05, (It seems to assume that do not considering in server side.) MI-02, MI-07	Input validation check - Input sanitization Integrity Check with hash functionan - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than sha256 Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	Need to make the server is o input validatio

TR-04	An attacker spoof the user (Client)	Need to more stronger authentification process	SR-02, SR-01	Cryptographically strong password should be used. A strong authentication method should be used.	MI-01, MI-10	Apply setting policy of cryptographically strong password - Enforce passwords longer than 7 characters Forces the use of mixed the letters of the alphabet and numbers. Strong authentication method - Condider 2-Factor-Authentication method	
TR-05	An attacker tampers Login or Mode control data to server in order to get information.	Need to encrypt communication channel	SR-09	Server and client must communicate using an encrypted channel.	MI-02	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	
TR-06	Clients can repudiate the actions they have performed.	Need to apply mutual authentification	SR-05, SR-08	#include #include in	MI-09, MI-11	Use mutual authentification - Using protocol TLS1.2 or higher - Use mutual authentication between server and client Save contents of communication as a log - Save log of the request and response between the server and the client	
TR-07	An attack can sniff the data on the connection.	Need to consider encrypting the data flow.	SR-09	Server and client must communicate using an encrypted channel.	MI-02	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	
TR-08	Weak Authentification may lead to disclose information	Need to more stronger authentification process	SR-02, SR-01	Cryptographically strong password should be used. A strong authentication method should be used.	MI-01, MI-10	Apply setting policy of cryptographically strong password - Enforce passwords longer than 7 characters Forces the use of mixed the letters of the alphabet and numbers. Strong authentication method - Condider 2-Factor-Authentication method	
TR-10	the information of the communication between client and server is interrupted by attackers.	Need to use TLS	SR-09, SR-05	Server and client must communicate using an encrypted channel. Only the verified server and client should be connected and communicated.	MI-02, MI-11	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	Threats are mapped to security RQs, but MI-11 is most likely not taken into account> M1-02 and MI-11 are the same.
TR-13	An attacker sends a malicious data to server in order to change the flow of program execution.	Need to apply input sanitization	*No matching SR	Input validation check is required in Server side.	MI-05, (It seems to assume that do not considering in server side.)	Input validation check - Input sanitization	Need to make sure the server is doing input validation. > Server is doing a range check. So no problem.

TR-29	It may be physically damaged and you may not be able to get Data from Camera	Need to protect camera unit from physical damage	SR-06	Protect Camera from physical damage	MI-08	Protect from physical damage - Wrap the camera module out of sight, or glue the cable to the camera.	
TR-34	It is possible to add a lot of Images in the storage.	Need to limit the number of images	SR-07	Restrictions related to files are necessary to avoid system problems.	MI-12	Validation of image when file saving - Limit on number of files - File name verification when image save - File size validation when image save	
TR-35	User credential may be disclosed.	Need to encrypt user credential data	SR-13, SR-12	User Credential Data should be encrypted in the storage. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-07	Encrypt user credential data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc of gcm mode Integrity Check with hash - Use an alforithm that are stronger than sha256	
TR-41	User Credential Data can be exposed to attackers.	Need to encrypt user credential data	SR-13, SR-12	User Credential Data should be encrypted in the storage. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-07	Encrypt user credential data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc of gcm mode Integrity Check with hash - Use an alforithm that are stronger than sha256	
TR-44	Server (Jetson) may be spoofed by an attacker	Need to apply mutual authentification	SR-09, SR-05	Server and client must communicate using an encrypted channel. Only the verified server and client should be connected and communicated.	MI-02, MI-11	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	Threats are mapped to security RQs, but MI-11 is most likely not taken into account> M1-02 and MI-11 are the same.
TR-45	Client (PC) may be spoofed by an attacker	Need to apply mutual authentification	SR-09, SR-05	Server and client must communicate using an encrypted channel. Only the verified server and client should be connected and communicated.	MI-02, MI-11	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	Threats are mapped to security RQs, but MI-11 is most likely not taken into account> M1-02 and MI-11 are the same.
TR-46	Video Stream may be tampered with by an attacker.	Need to protect the video stream over the connection	SR-14	Video Stream over the connection should be protected.	MI-02	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	

TR-48	Video Stream may be sniffed with by an attacker.	Need to protect the video stream over the connection	SR-14	Video Stream over the connection should be protected.	MI-02	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	
TR-49	Client (PC) crashes, halts, stops or runs slowly.	Need to remain stable in abnormal cases	SR-03	Errors, exceptions, and abnormal conditions that may occur in the software must be handled robustly.	MI-04	Implement robust system - Error handling - Exception handling - Finding countermeasures for predictable abnormal conditions	
TR-52	Server (Jetson) may be able to remotely execute code	Need input sanitization	*No matching SR	Input validation check is required in Server side.	MI-05, (MI-05, (It seems to assume that do not considering in server side.)	Input validation check - Input sanitization	Need to make sure the server is doing input validation.
TR-53	An attacker may pass data into 1.1 Client (PC)	Need input sanitization	SR-04	Input validation check is required in Client side.	MI-05	Input validation check - Input sanitization	
TR-56	Change the image data not to recognize registered users.	Need to protect user credential data	SR-13, SR-12	User Credential Data should be encrypted in the storage. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-07	Encrypt user credential data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc of gcm mode Integrity Check with hash - Use an alforithm that are stronger than sha256	
TR-57	Disclose administrator's ID/Password to the employees in the company.	Need to more stronger process for authentification	SR-02, SR-01	Cryptographically strong password should be used. A strong authentication method should be used.	MI-01, MI-10	Apply setting policy of cryptographically strong password - Enforce passwords longer than 7 characters Forces the use of mixed the letters of the alphabet and numbers. Strong authentication method - Condider 2-Factor-Authentication method	
TR-59	Sniff the communication channel between server and client to get user credential data.	Need to protect the data over the connection	SR-09, SR-05	Server and client must communicate using an encrypted channel. Only the verified server and client should be connected and communicated.	MI-02, MI-11	Communicate using Encryted channel - using protocol TLS1.2 or higher - Consider mutual authentication between server and client	Threats are mapped to security RQs, but MI-11 is most likely not taken into account> M1-02 and MI-11 are the same.
TR-60	Compromise the connection of network physically by an attacker	Server need to be robust in abnormal case.	SR-03	Errors, exceptions, and abnormal conditions that may occur in the software must be handled robustly.	MI-04	Implement robust system - Error handling - Exception handling - Finding countermeasures for predictable abnormal conditions	

TR-61	By changing the server/client's certificate or key, an attacker may attempt to connect to an unauthorized client. And attacker can try to steal the information of the encryption channel.	Need to protect or verify the certificates and keys used by the server and client for TLS communication	SR-15	A server and client program must perform an integrity check before using a certificate or key.	MI-13	Certificate & Key file existance check Integrity Check with hash function - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than sha256	
TR-62	By modifying the face recognition data, an attacker may cause an error or abnormal operation in the face recognition result. By stealing facial recognition data, an attacker can steal information from the system.	Need to protect face recognition data		Face recognition data should be encrypted in the storage. Use well-known cryptographic libraries and robust algorithms.	MI-03, MI-06, MI-07	Encrypt face recognition data in storage - Use OpenSSL library of latest version (1.1.1k) - Use an algorithm that are stronger than AES256 - Use cbc or gcm mode Integrity Check with hash - Use an alforithm that are stronger than sha256	
TR-63	An attacker can find out the ROOT KEY used for encryption through reverse binary analysis, decrypt the encrypted file, and steal information. An attacker can infer the key used for encryption through statistical analysis of the encrypted file.	Need to preventing reverse analysis of encrypted information Need to protect ROOT encrypt key	SR-17, SR-18	Every enctyption time, newly generated random key is used for encryption to make reverse analysis difficult ROOT encrypt key must be protected from binary analysis	MI-14, MI-15	Use random encrypt key - use TRNG (True Random Number Generator) is best - Cryptographically secure pseudorandom number generator can be used alternatively Protect ROOT encrytpion key - HSM (Hardware Secure Module) is best - alternatively White-box Cryptography or Code obfuscation method can be used	

Attack Scenario Analysis of Test Case(TC)

	Written by Tear	n 6					
	Cheked and Ar	aylz	ed byTeam 5				
			Test Cases				
Т	C Name		Step	Expected	Execution Result	Result	Evaludate
TC1	id validation	1	type id more than 10 len	cannot type character more than 10	OK	ОК	It's negative case. It will be better if describe positive case and note about case type.
TC2	pass validation	1	type pass more than 20 len	cannot type character more than 20	OK	ОК	
TC3	login	1	type id something	check login button is not activated	OK	ОК	
		2	make id to empty string	check login button is not activated	OK	ОК	
		3	type pass something	check login button is not activated	OK	ОК	
		4	type id,pass something	check login button is activated	OK	ОК	
		5	disconnect client and server in the local network		OK	ОК	
		6	push login button	check alert 'Connection Fail'	OK	ОК	
		7	connect client and server in the local network		OK	ОК	
		8	Do not meet the condition below - type alphabet and number in id - Minimum eight characters, at least one letter, one number and one special character on password	check login button is activated	OK	OK	
		9	push login button	check alert 'Login Fail'	OK	ОК	
		10	type valid id,pass		ОК	ОК	

Attack Scenario Analysis of Test Case(TC)

		11	push login button	check id,pass,login button component are deactivated secure mode check button activated and checked check running secure run mode (camera is on and I can see the camera)	OK	ОК
TC4	logout	pre	login is needed		OK	OK
		1	push logout button	check id,pass components are activated other componens are deactivated all connection with server are disconnected	OK	ОК
TC5	secure & run	pre	login is needed		OK	ОК
	mode	1	enable checkbox of Secure Mode disable checkout of Test Mode	securely receive the image data generated from server camera	OK	ОК
TC6	secure & test	pre	login is needed		OK	OK
	mode	1	enable checkbox of Secure Mode enable checkout of Test Mode	securely receive the image data generated from server media file	OK	ОК
TC7	non secure &	pre	login is needed		OK	OK
	run mode	1	disable checkbox of Secure Mode disable checkout of Test Mode	receive the image data generated from server camera	OK	ОК
TC8	non secure &	pre	login is needed		OK	OK
	test mode	1	disable checkbox of Secure Mode enable checkout of Test Mode	receive the image data generated from server media file	OK	ОК
TC9	Learn Mode	pre	login is needed select test mode		OK	ОК
		1	push Pause button when no face recognition	photo is stopped. no face recognition Pause button is changed to "Resume need to pause again to Save Picture" button	OK	ОК
		2			OK	OK
		3	push Pause button when face recognition	photo is stopped. one face recognition is represented Pause button is changed to "Resume" button. Name input is enabled	OK	ОК

Attack Scenario Analysis of Test Case(TC)

	4	type name more than 20 len on Name input	"Learn Mode - Save" button is enabled	OK	OK	
	5	remove and empty name on Name input	"Learn Mode - Save" button is disabled	OK	ОК	
	6	type name again on Name input	"Learn Mode - Save" button is enabled	OK	ок	
	7	push "Resume" button	confirm "save done" dialog	OK	ОК	

Attack Scenario FlawFinder Results(FF)

Turr rawr inu	der for static analysis of Team 6's system and then evaluat	io it.				
	FlawFinder's Output					
	Checked and Analyzed by Team 5					
	FlawFinder Results					
4mil.a4b.uaab i4.	Not interested in common help code (such as Tones	uffers bees Fasine	ata\			
FlawFinder ID	ems - Not Interested in common help code (such as Tenso		<u> </u>	Descriptions	Analysis of Toom 5	Link
FF-01		Target	Vulnerability code	Descriptions Descriptions CWE 420	Analysis of Team 5	LINK
	./common/TcpSendRecv.cpp:124	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of dst	
FF-02	./common/TcpSendRecv.cpp:129	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of dst	
FF-03	./common/TcpSendRecv.cpp:466	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of dst	
FF-04	./server/src/faceNet.cpp:122	(misc) open	CWE-362	Check when opening files - can an attacker redirect it (via symlinks), force the opening of special file type (e.g., device files), move things around to create a race condition, control its ancestors, or change its contents? (CWE-362).	Follow the principle of least privilege when assigning access rights to entities in a software system. Denying access to a file can prevent an attacker from replacing that file with a link to a sensitive file.	
FF-05	./server/src/main.cpp:127	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of src	
FF-06	./server/src/main.cpp:128	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of src	
FF-07	./server/src/main.cpp:129	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	need mitigation - alloc size of src	
FF-08	./server/src/main.cpp:163	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	false alarm	
FF-09	./common/TcpSendRecv.cpp:99	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	false alarm the parameter userid((const gchar*) is called with c_str() which always contains null termination	
FF-10	./common/TcpSendRecv.cpp:100	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	false alarm the parameter userpw(const gchar*) is called with c_str() which always contains null termination	
FF-11	./common/TcpSendRecv.cpp:443	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	false alarm the parameter name(const gchar*) is called with c_str() which always contains null termination	
FF-12	./common/openssl_hostname_validation.cpp:59	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	need mitigation - add a byte for null termination or use std::string	
FF-13	./common/openssl_hostname_validation.cpp:111	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	need mitigation - add a byte for null termination or use std::string	
FF-14	./server/src/faceNet.cpp:47	(buffer) read	CWE-120, CWE-20	Check buffer boundaries if used in a loop including recursive loops (CWE-120, CWE-20).	need mitigation - add a check sequence if return of read was ok	
FF-15	//server/src/faceNet.cpp:311	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	null character is inserted between name and image data during data packaging. If tempered?	AS-2
FF-16	./server/src/faceNet.cpp:311	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	null character is inserted between name and image data during data packaging. If tempered?	AS-
FF-17	./server/src/main.cpp:45	(buffer) read	CWE-120, CWE-20	Check buffer boundaries if used in a loop including recursive loops (CWE-120, CWE-20).	nee mitigation - add a check sequence if return of read was ok	
FF-18	./server/src/main.cpp:133	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	need mitigation - add a byte for null termination to the parameter userid or use std::string	
FF-19	/server/src/main.cpp:134	(buffer) strlen	CWE-126	Does not handle strings that are not \0-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).	need mitigation - add a byte for null termination to the parameter user_pw or use std::string	

Attack Scenario FlawFinder Results(FF)

 -/server/MTCNN_FaceDetection_TensorRT/src/mtcnn.cp	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	Not Interested
-/server/MTCNN_FaceDetection_TensorRT/src/mtcnn.cp	(buffer) memcpy	CWE-120	Does not check for buffer overflows when copying to destination (CWE-120). Make sure destination can always hold the source data.	Not Interested
-/server/MTGNN_FaceDetection_TensorRT/src/pnet_rt.c	(misc) open	CWE-362	-Check when opening files - can an attacker redirect it (via symlinks), force the opening of special file type (e.g., device files), move things around to create a race condition, control its ancestors, or change its contents? (CWE-362).	Not Interested
-/server/MTCNN_FaceDetection_TensorRT/src/pnet_rt.c	(misc) open	CWE-362	-Check when opening files - can an attacker redirect it (via symlinks), force the opening of special file type (e.g., device files), move things around to create a race condition, control its ancestors, or change its contents? (CWE-362).	Not Interested
-/server/src/baseEngine.cpp:111	(misc) open	CWE-362	-Check when opening files - can an attacker redirect it (via symlinks), force the opening of special file type (e.g., device files), move things -around to create a race condition, control its ancestors, or change its -contents? (CWE-362).	Not Interested
-/server/src/pnet_rt.cpp:25	(misc) open	CWE-362	-Check when opening files - can an attacker redirect it (via symlinks), -force the opening of special file type (e.g., device files), move things -around to create a race condition, control its ancestors, or change its -contents? (CWE-362).	Not Interested
 _/server/src/pnet_rt.epp:49	(misc) open	CWE-362	-Check when opening files - can an attacker redirect it (via symlinks), force the opening of special file type (e.g., device files), move things -around to create a race condition, control its ancestors, or change its -contents? (CWE-362).	Not Interested
./server/MTCNN_FaceDetection_TensorRT/src/common.	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 /server/src/baseEngine.cpp:62	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 /server/trt_l2norm_helper/l2norm_helper.cpp:29	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
/server/trt_l2norm_helper/l2norm_helper.cpp:30	(buffer) read	CWE-120, CWE-20	Check buffer boundaries if used in a loop including recursive loops (CWE-120, CWE-20).	Not Interested
 /server/trt_l2norm_helper/l2norm_helper.cpp:31	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 /server/trt_l2norm_helper/l2norm_helper.cpp:32	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 /server/trt_l2norm_helper/l2norm_helper.cpp:33	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 /server/trt_l2norm_helper/l2norm_helper.cpp:34	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested
 -/server/trt_l2norm_helper/l2norm_helper.h:127	(buffer) read	CWE-120, CWE-20	-Check buffer boundaries if used in a loop including recursive loops -(CWE-120, CWE-20).	Not Interested

Attack Scenario CppCheck Results(CC)

Run Opponed	ck for static analysis of Team 6's system	i and then evaluate it.	
	CppCheck's Output		
	Checked and Analyzed by Team 5		
	cppcheck results		
Strikethrough ite	ems - Not Interested in common help co	ode (such as Tensorflow, baseEngin	e, etc)
CppCheck ID	Sourcecode path (line)	Туре	Analysis of Team 5
CC-01	server/src/main.cpp:196	style [unreadVariable]	false positive
CC-02	server/src/main.cpp:201	style [unreadVariable]	false positive
CC-03	server/src/main.cpp:209	style [unreadVariable]	false positive
CC-04	server/src/main.cpp:229	style [unreadVariable]	false positive
CC-05	server/src/main.cpp:247	style [unreadVariable]	false positive
CC-06	server/src/main.cpp:248	style [unreadVariable]	false positive
CC-07	server/src/videoStreamer.cpp:35	warning [noCopyConstructor]	false positive - use openCV librar
CC-08	server/src/videoStreamer.cpp:35	warning [noOperatorEq]	false positive - use openCV librar
CC-09	server/src/videoStreamer.cpp:60	style [unusedFunction]	unused. if not in use, delete it.
CC-10	server/src/common.cpp:22	style [unusedFunction]	unused. if not in use, delete it.
CC-11	server/src/faceNet.cpp:414	style [unusedFunction]	unused. if not in use, delete it.
CC-12	common/Logger.cpp:110	style [unusedFunction]	unused. if not in use, delete it.
CC-13	common/Logger.cpp:124	style [unusedFunction]	false positive
CC-14	server/src/common.cpp:8	style [unusedFunction]	unused. if not in use, delete it.
CC-15	server/src/videoStreamer.cpp:50	style [unusedFunction]	unused. if not in use, delete it.
CC-16	server/src/videoStreamer.cpp:43	style [unusedFunction]	unused. if not in use, delete it.
	server/src/mtcnn.cpp:39	warning	Not Interested
	server/src/mtcnn.cpp:39	warning	Not Interested
	server/src/onet_rt.cpp:42	warning	Not Interested
	server/src/onet_rt.cpp:42	warning	Not Interested
	server/src/pnet_rt.cpp:71	warning	Not Interested
	server/src/pnet_rt.cpp:71	warning	Not Interested
	server/src/rnet_rt.cpp:38	warning	Not Interested

Attack Scenario CppCheck Results(CC)

server/src/rnet_rt.cpp:38	warning	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp: performance	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp: style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp: style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp: style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp; style	Not Interested
server/trt_l2norm_helper/l2norm_helpe	er.cp style	Not Interested

D 0 .	- for stalls an about of To								
Run Code x-ra	y for static analysis of Team 6's system and then e	evaluate it.							
	Code x-ray's Output Checked and Analyzed by Team 5								
	Onecked and Analyzed by Team 5								
	Code x-ray results								
	Sout X-ray results					Analysis of Team5			
Strikethrough iter	ms - Not Interested in common help code (such as	s Tensorflow, baseE	ngine, etc)			Top 5 violations			
Code x-ray ID		Line	Issue	Severity	Rule	Violated Rules	count	ts Rule	Examples
CX-001	source/server/src/main.cpp	203	Condition 'argc==3' is always false	MINOR	cppcheck:knownConditionTrueFalse	cppcheck:misra_c_2012_15_01	11	19 The goto statement should not be used	https://gitlab.com/MISRA/MISRA-C/MISRA-C-2012/Example-Suite/-/blob/master/R
CX-002								The controlling expression of an if-statement and the	
CX-002	source/common/NetworkTCP.cpp	225	MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	cppcheck:misra_c_2012_14_04	8	controlling expression of an iteration-statement shall have essentially Boolean type	https://gitlab.com/MISRA/MISRA-C/MISRA-C-2012/Example-Suite/-/blob/master/R
CX-003	source/common/NetworkTCP.cpp		MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	cppcheck:misra_c_2012_15_05		86 A function should have a single point of exit at the end	https://gitlab.com/MISRA/MISRA-C/MISRA-C-2012/Example-Suite/-/blob/master/F
CX-004	**							The body of an iteration-statement or a selection-statement	
CX-004	source/common/NetworkTCP.cpp	694	MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	cppcheck:misra_c_2012_15_06	6	shall be a compound statement	https://gitlab.com/MISRA/MISRA-C/MISRA-C-2012/Example-Suite/-/blob/master/F
CX-005	source/common/NetworkTCP.cpp	412	MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	cppcheck:misra c 2012 12 01	5	The precedence of operators within expressions should be made explicit	https://gitlab.com/MISRA/MISRA-C/MISRA-C-2012/Example-Suite/-/blob/master/F
CX-006	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_12_03	3		Ingo/gradion work vinor of Ormoro Co Lo Lo Louring Contain Modification
	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_10_04	3		
CX-008	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_13_04	2	23	
CX-009	source/common/NetworkTCP.cpp	284	MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_04_01	2	20	
CX-010	source/common/NetworkTCP.cpp	293	MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_21_03	1	2	
CX-011	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_15_07		7	
CX-012	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_21_08		6	
CX-013	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_17_08		4	
CX-014	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_15_02	+	3	
CX-015	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_03_01	+	2	
CX-016 CX-017	source/common/NetworkTCP.cpp		MISRA C 2012 13.4 is violated MISRA C 2012 14.4 is violated	MAJOR MINOR	cppcheck:misra_c_2012_13_04	cppcheck:misra_c_2012_10_01	+	2	
	source/common/NetworkTCP.cpp			MINOR	cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_13_03 cppcheck:knownConditionTrueFalse	+	1	
CX-018	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp	229	MISRA C 2012 14.4 is violated MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04 cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_08_12	+-	1	
CX-019	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04 cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_14_01	+	1	
CX-021	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_18_08	1	1	
CX-022	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_20_01		1	
CX-023	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_21_06		1	
	source/common/NetworkTCP.cpp	699	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	cppcheck:misra_c_2012_21_10		1	
	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04				
CX-026	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04				
CX-027	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04				
	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04				
CX-029 CX-030	source/common/NetworkTCP.cpp		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04				
CX-030 CX-031	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR MAJOR	cppcheck:misra_c_2012_15_01				
	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-032	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-034	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-036	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-037	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-038	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-039	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-040	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-041 CX-042	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR MAJOR	cppcheck:misra_c_2012_15_01				
	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-043	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-045	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-046	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-047	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-048	source/common/NetworkTCP.cpp	466	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-049	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-050	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-051	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-052	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-053 CX-054	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-054 CX-055	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-055	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-057	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-058	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-059	source/common/NetworkTCP.cpp	563	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-060	source/common/NetworkTCP.cpp	571	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-062	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-063	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-064	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-065	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-066 CX-067	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR MAJOR	cppcheck:misra_c_2012_15_01				
	source/common/NetworkTCP.cpp source/common/NetworkTCP.cop		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-068	source/common/NetworkTCP.cpp source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated MISRA C 2012 15.1 is violated	MAJOR					
CX-009	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01 cppcheck:misra_c_2012_15_01				
CX-070	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-072	source/common/NetworkTCP.cpp		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01				
CX-073	source/common/NetworkTCP.cpp		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra c 2012 15 05				

Col.					
Col.	CX-074		7 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
Description Communication	CX-075	source/common/NetworkTCP.cop 65	5 MISRA C 2012 15.5 is violated	MINOR	concheck:misra c 2012 15 05
Oct	CY 076		9 MICDA C 2012 15 5 is violated	MINOD	
Column					
Geo.				MINOR	cppcheck:misra_c_2012_15_05
Description	CX-078	source/common/NetworkTCP.cop 98	8 MISRA C 2012 15.5 is violated	MINOR	
Design					
Print Prin					
Cold			8 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
Cold	CX-081	source/common/NetworkTCP.cpp 190	0 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra c 2012 15 05
Decks	CX-082		2 MISDA C 2012 15 5 is violated	MINIOD	
COUNTY C					
Colf.	CX-083	source/common/NetworkTCP.cpp 194	4 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
Oct.	CX-084	source/common/NetworkTCP.cop 196	6 MISRA C 2012 15.5 is violated	MINOR	cpocheck:misra c 2012 15 05
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CORP					
Cold	CX-086	source/common/NetworkTCP.cpp 222	2 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
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Cold	CX-092	source/common/NetworkTCP.cpp 279	9 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra c 2012 15 05
Cold	CX-093			MINIOD	
Strong					
Cold		source/common/NetworkTCP.cpp 695	5 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
Cold	CX-095	source/common/NetworkTCP.cpp 761	1 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
COURT COUR	CX-098	source/common/NetworkTCP.con 765	5 MISRA C 2012 15 5 is violated	MINOR	
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Column	CX-098	source/common/NetworkTCP.cpp 781	1 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
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Cold					
CV-12					
C-SC Improvement American	CX-101	source/common/NetworkTCP.cpp 798	8 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
Col. 13	CX-102	source/common/NetworkTCP.cpn 803	2 MISRA C 2012 15 5 is violated	MINOR	
Critical					
Cold					
CC-50				CRITICAL	cppcheck:misra_c_2012_15_06
Col. 19	CX-105		3 MISRA C 2012 15.7 is violated	CRITICAL	
Column					concheck misra c. 2012, 17, 07
Col.					
Col.					
Col.	CX-108	source/common/NetworkTCP.cpp 610	0 MISRA C 2012 17.7 is violated	CRITICAL	cppcheck:misra_c_2012_17_07
Col.	CX-109	source/common/NetworkTCP con 636	6 MISRA C 2012 17 7 is violated	CRITICAL	
Col.					
Child					
Co-11	CX-111	source/common/NetworkTCP.cpp 35	5 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04
Chi	CX-112	source/common/NetworkTCP.cop 53	3 MISRA C 2012 10.4 is violated	MINOR	
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Co.119 Content of the Content of t					
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Col. 10	CX-116	source/common/NetworkTCP.con 443	2 MISRA C 2012 10 4 is violated	MINOR	
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CX-184		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-185	source/common/TcpSendRecv.cpp 414	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-186	source/common/TcpSendRecv.cpp 435	MISRA C 2012 15.1 is violated	MAJOR	cppcheckmisra c_2012_15_01
CX-187		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-188	source/common/TcpSendRecv.cpp 446	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-189		MISRA C 2012 15.1 is violated	MAJOR	cppcheck.misra_c_2012_15_01
CX-190			MAJOR	opportunition of the state of t
		MISRA C 2012 15.1 is violated		cppcheck:misra_c_2012_15_01
CX-191	source/common/TcpSendRecv.cpp 47	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-192	source/common/TcpSendRecv.cpp 494	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-193		MISRA C 2012 15.1 is violated	MAJOR	
				cppcheck:misra_c_2012_15_01
CX-194	source/common/TcpSendRecv.cpp 507	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-195	source/common/TcpSendRecv.cpp 517	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-196		MISRA C 2012 15.1 is violated	MAJOR	
				cppcheckmisra_c_2012_15_01
CX-197		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-198	source/common/TcpSendRecv.cpp 558	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-199		MISRA C 2012 15.1 is violated	MAJOR	cppcheckmisra_c_2012_15_01
CX-200	source/common/TcpSendRecv.cpp 588	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-201	source/common/TcpSendRecv.cpp 594	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-202	source/common/TcpSendRecv.cpp 603	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CV 202			MINIOD	
CX-203	source/common/TcpSendRecv.cpp 29	MISRA C 2012 15.5 is violated	MINOR	cppcheck.misra_c_2012_15_05
CX-203 CX-204	source/common/TcpSendRecv.cpp 29		MINOR CRITICAL	
CX-204	source/common/TcpSendRecv.cpp 25 source/common/TcpSendRecv.cpp 26	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-204 CX-205	source/common/TcpSendRecv.cpp 28 source/common/TcpSendRecv.cpp 28 source/common/TcpSendRecv.cpp 75	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-204 CX-205 CX-206	source/common/TcpSendRecv.cpp 26 source/common/TcpSendRecv.cpp 21 source/common/TcpSendRecv.cpp 77 source/common/TcpSendRecv.cpp 14	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_C_2012_15_06 cppcheck:misra_C_2012_15_06
CX-204 CX-205	source/common/TcpSendRecv.cpp 26 source/common/TcpSendRecv.cpp 21 source/common/TcpSendRecv.cpp 77 source/common/TcpSendRecv.cpp 14	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-204 CX-205 CX-206	source/common/TcpSendRecv.cpp 2: source/common/TcpSendRecv.cpp 2: source/common/TcpSendRecv.cpp 7: source/common/TcpSendRecv.cpp 14: source/common/TcpSendRecv.cpp 2:	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL	cppcheck misra_c_2012_15_06 cppcheck misra_c_2012_15_06 cppcheck misra_c_2012_15_06 cppcheck misra_c_2012_15_06 cppcheck misra_c_2012_15_06
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CX-204 CX-205 CX-206 CX-207 CX-208 CX-209	source/common/TcpSendRecv.cpp 21 source/common/TcpSendRecv.cpp 22 source/common/TcpSendRecv.cpp 77 source/common/TcpSendRecv.cpp 144 source/common/TcpSendRecv.cpp 21 source/common/TcpSendRecv.cpp 24 source/common/TcpSendRecv.cpp 28 source/common/TcpSendRecv.cpp 28	MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL	cppcheck misra_c_2012_15_06
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CX-204 CX-205 CX-206 CX-207 CX-208 CX-207 CX-208 CX-209 CX-210 CX-211 CX-212 CX-213 CX-214 CX-215 CX-216 CX-217 CX-218 CX-219 CX-221 CX-221 CX-221 CX-221 CX-222 CX-222 CX-223 CX-224 CX-225 CX-226 CX-226 CX-227 CX-228 CX-228 CX-228 CX-229 CX-229 CX-229 CX-220 CX-221 CX-226 CX-227 CX-228 CX-228 CX-228 CX-229 CX-231 CX-232 CX-232 CX-233 CX-234 CX-235 CX-236 CX-237 CX-237 CX-238		MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 12.1 is violated MISRA C 2012 13.1 is violated MISRA C 2012 14.1 is violated	CRITICAL MINOR MAJOR	oppheckmirat_0_2012_15_00 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_07 oppheckmirat_0_2012_17_01 oppheckmirat_0_201
CX-204 CX-205 CX-206 CX-207 CX-207 CX-207 CX-208 CX-209 CX-210 CX-211 CX-211 CX-212 CX-213 CX-214 CX-215 CX-216 CX-216 CX-217 CX-218 CX-216 CX-217 CX-218 CX-219 CX-220 CX-220 CX-221 CX-221 CX-221 CX-222 CX-223 CX-224 CX-225 CX-226 CX-227 CX-228 CX-227 CX-228 CX-228 CX-229 CX-221 CX-221 CX-225 CX-226 CX-227 CX-226 CX-227 CX-228 CX-228 CX-228 CX-228 CX-229 CX-221 CX-225 CX-226 CX-227 CX-226 CX-227 CX-228 CX-228 CX-228 CX-228 CX-228 CX-228 CX-230 CX-231 CX-232 CX-232 CX-232 CX-232 CX-232 CX-232 CX-233 CX-234 CX-235 CX-236 CX-236 CX-237 CX-236 CX-237 CX-238		MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 12.1 is violated MISRA C 2012 13.1 is violated MISRA C 2012 14.1 is violated	GRITICAL MAJOR	oppheckmiss_0_2012_15_00 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_01 oppheckmiss_0_2012
CX-204 CX-205 CX-206 CX-207 CX-208 CX-207 CX-208 CX-209 CX-210 CX-211 CX-211 CX-212 CX-213 CX-216 CX-216 CX-216 CX-216 CX-217 CX-218 CX-218 CX-218 CX-219 CX-220 CX-221 CX-221 CX-222 CX-223 CX-224 CX-225 CX-226 CX-227 CX-228 CX-229 CX-221 CX-229 CX-221 CX-227 CX-228 CX-228 CX-229 CX-221 CX-229 CX-221 CX-229 CX-221 CX-225 CX-226 CX-227 CX-228 CX-227 CX-228 CX-229 CX-231 CX-232 CX-231 CX-232 CX-231 CX-232 CX-233 CX-234 CX-235 CX-236 CX-236 CX-237 CX-238		MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 17.6 is violated MISRA C 2012 17.1 is violated	CRITICAL MINOR MAJOR MAJ	expendentimara_c_2012_15_00 ex
CX-204 CX-205 CX-206 CX-207 CX-208 CX-207 CX-208 CX-209 CX-210 CX-211 CX-212 CX-213 CX-214 CX-215 CX-216 CX-217 CX-218 CX-219 CX-221 CX-221 CX-221 CX-221 CX-222 CX-222 CX-223 CX-224 CX-225 CX-226 CX-226 CX-227 CX-228 CX-228 CX-228 CX-229 CX-229 CX-229 CX-220 CX-221 CX-226 CX-227 CX-228 CX-228 CX-228 CX-229 CX-231 CX-232 CX-232 CX-233 CX-234 CX-235 CX-236 CX-237 CX-237 CX-238		MISRA C 2012 15.5 is violated MISRA C 2012 15.6 is violated MISRA C 2012 12.1 is violated MISRA C 2012 13.1 is violated MISRA C 2012 14.1 is violated	CRITICAL MINOR MAJOR	oppheckmiss_0_2012_15_00 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_07 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_00 oppheckmiss_0_2012_17_01 oppheckmiss_0_2012

		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-243	source/server/src/main.cpp 468	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra c 2012 14 04
CX-244		MISRA C 2012 14.4 is violated	MINOR	oppcheckmisra c, 2012, 14, 04
CX-245				
		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-246	source/server/src/main.cpp 114	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-247		MISRA C 2012 15.1 is violated	MAJOR	oppcheck:misra_c_2012_15_01
			MAJOR	
		MISRA C 2012 15.1 is violated		cppcheck:misra_c_2012_15_01
CX-249	source/server/src/main.cpp 157	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-250	source/server/src/main.cpp 160	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-251			MALION	
		MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-252	source/server/src/main.cpp 440	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-253	source/server/src/main.cpp 446	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-254		MISRA C 2012 15.1 is violated	MAJOR	
				cppcheck:misra_c_2012_15_01
CX-255	source/server/src/main.cpp 456	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-256	source/server/src/main.cpp 466	MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
		MISRA C 2012 15.2 is violated	BLOCKER	
	source/server/src/main.cpp 456	MISRA C 2012 15.2 is violated		cppcheck:misra_c_2012_15_02
CX-258		MISRA C 2012 15.2 is violated	BLOCKER	cppcheck:misra_c_2012_15_02
CX-259	source/server/src/main.cpp 46	MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-260		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-261		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-262	source/server/src/main.cpp 215	MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-263		MISRA C 2012 15.5 is violated	MINOR	opcheckmisra c, 2012, 15,05
CX-264		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-265	source/server/src/main.cpp 292	MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-266		MISRA C 2012 15.5 is violated	MINOR	oppcheckmisra c, 2012, 15,05
CX-267				
		MISRA C 2012 15.5 is violated	MINOR	cppcheckmisra_c_2012_15_05
CX-268		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-269		MISRA C 2012 15.5 is violated	MINOR	cppcheckmisra_c_2012_15_05
CX-270		MISRA C 2012 15.6 is violated	CRITICAL	
		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-272	source/server/src/main.cpp 109	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
		MISRA C 2012 15.6 is violated	CRITICAL	
				cppcheck:misra_c_2012_15_06
CX-274		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-275	source/server/src/main.cpp 156	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-276	source/server/src/main.cpp 159	MISRA C 2012 15.6 is violated	CRITICAL	oppcheckmisra c, 2012, 15,06
CX-277		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-278	source/server/src/main.cpp 167	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
		MISRA C 2012 15.6 is violated	CRITICAL	oppcheck:misra_c_2012_15_06
				cppcreex.nissa_6_c012_15_06
CX-280		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-281	source/server/src/main.cpp 174	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-282	source/server/src/main.cpp 176	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-283				
		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-284	source/server/src/main.cpp 268	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-285	source/server/src/main.cop 407	MISRA C 2012 15.6 is violated	CRITICAL	coocheckmisra c 2012 15 06
CX-285		MISRA C 2012 15.6 is violated	CRITICAL	oppcheckmisra_e_2012_15_06
CX-286	source/server/src/main.cpp 408	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-286 CX-287	source/server/src/main.cpp 408			
CX-286 CX-287	source/server/src/main.cpp 408 source/server/src/main.cpp 420	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck misra_c_2012_15_06 cppcheckmisra_c_2012_15_06
CX-286 CX-287 CX-288	source/server/src/main.cpp 408 source/server/src/main.cpp 420 source/server/src/main.cpp 424	MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289	source/server/src/main.cpp 408 source/server/src/main.cpp 425 source/server/src/main.cpp 425 source/server/src/main.cpp 425	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL	cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_08 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290	source/server/src/main.cpp 406 source/server/src/main.cpp 427 source/server/src/main.cpp 424 source/server/src/main.cpp 425 source/server/src/main.cpp 433 source/server/src/main.cpp 433	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290	source/server/src/main.cpp 406 source/server/src/main.cpp 427 source/server/src/main.cpp 424 source/server/src/main.cpp 425 source/server/src/main.cpp 433 source/server/src/main.cpp 433	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL	popcheck misra_c_2012_15_06 cppcheck misra_c_2012_15_08 cppcheck misra_c_2012_15_08 cppcheck misra_c_2012_15_08 cppcheck misra_c_2012_15_08 cppcheck misra_c_2012_15_08
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291	source/server/src/main.cpp 402 source/server/src/main.cpp 422 source/server/src/main.cpp 42e source/server/src/main.cpp 425 source/server/src/main.cpp 435 source/server/src/main.cpp 435	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292	source/server/src/main.cpp 466 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 433 source/server/src/main.cpp 431 source/server/src/main.cpp 431 source/server/src/main.cpp 431	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL	cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06 cppcheck.misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-293	source/server/src/main.cpp 408 source/server/src/main.cpp 422 source/server/src/main.cpp 429 source/server/src/main.cpp 420 source/server/src/main.cpp 433 source/server/src/main.cpp 433 source/server/src/main.cpp 443 source/server/src/main.cpp 444	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_00 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-293	source/server/src/main.cpp 408 source/server/src/main.cpp 422 source/server/src/main.cpp 429 source/server/src/main.cpp 420 source/server/src/main.cpp 433 source/server/src/main.cpp 433 source/server/src/main.cpp 443 source/server/src/main.cpp 444	MISRA C 2012 15.6 is violated	CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL CRITICAL	cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-288 CX-290 CX-291 CX-292 CX-293 CX-293	source/server/src/main.cpp 402 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 423 source/server/src/main.cpp 433 source/server/src/main.cpp 444 source/server/src/main.cpp 444 source/server/src/main.cpp 445 source/server/src/main.cpp 445	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-292 CX-293 CX-294 CX-295	source/server/src/main.opp 400eserver/src/main.opp source/server/src/main.opp 422 source/server/src/main.opp 42e source/server/src/main.opp 42e source/server/src/main.opp 433 source/server/src/main.opp 431 source/server/src/main.opp 444 source/server/src/main.opp 446 source/server/src/main.opp 456 source/server/src/main.opp 456 source/server/src/main.opp 456	MISRA C 2012 15.6 is violated	CRITICAL	popcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_16_06 cppcheck:miara_c_2012_16_06 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-291 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296	source/server/src/main.cpp 408 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 428 source/server/src/main.cpp 433 source/server/src/main.cpp 435 source/server/src/main.cpp 444 source/server/src/main.cpp 456 source/server/src/main.cpp 456 source/server/src/main.cpp 456 source/server/src/main.cpp 456 source/server/src/main.cpp 456 source/server/src/main.cpp 456	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_08
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-293 CX-296 CX-296 CX-296	source/server/src/main.opp 406 source/server/src/main.opp 422 source/server/src/main.opp 422 source/server/src/main.opp 422 source/server/src/main.opp 423 source/server/src/main.opp 433 source/server/src/main.opp 434 source/server/src/main.opp 444 source/server/src/main.opp 455 source/server/src/main.opp 455 source/server/src/main.opp 465 source/server/src/main.opp 465 source/server/src/main.opp 466	MISRA C 2012 15.6 is violated	CRITICAL	popcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_16_06 cppcheck:miara_c_2012_16_06 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_00 cppcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_15_06 cppcheck:miara_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-291 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296	source/server/src/main.opp 406 source/server/src/main.opp 422 source/server/src/main.opp 422 source/server/src/main.opp 422 source/server/src/main.opp 423 source/server/src/main.opp 433 source/server/src/main.opp 434 source/server/src/main.opp 444 source/server/src/main.opp 455 source/server/src/main.opp 455 source/server/src/main.opp 465 source/server/src/main.opp 465 source/server/src/main.opp 466	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_06 cppcheck:misra_c_2012_15_00
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-298	source/server/src/main.cpp 400 source/server/src/main.cpp 425 source/server/src/main.cpp 425 source/server/src/main.cpp 425 source/server/src/main.cpp 433 source/server/src/main.cpp 433 source/server/src/main.cpp 445 source/server/src/main.cpp 445 source/server/src/main.cpp 455 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 464	MISRA C 2012 15.6 is violated	CRITICAL	cppcheckmisra_c_2012_15_08
CX-286 CX-287 CX-288 CX-289 CX-290 CX-291 CX-292 CX-293 CX-293 CX-295 CX-295 CX-296 CX-297 CX-298 CX-298	source/server/src/main.cpp 486 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 433 source/server/src/main.cpp 433 source/server/src/main.cpp 444 source/server/src/main.cpp 445 source/server/src/main.cpp 455 source/server/src/main.cpp 455 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 460 source/server/src/main.cpp 461 source/server/src/main.cpp 461	MISRA C 2012 15.6 is violated	CRITICAL	cppcheckmisra_c_2012_15_06
CX-286 CX-287 CX-288 CX-289 CX-291 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-298 CX-298 CX-298 CX-298 CX-298 CX-298 CX-298 CX-298	source/server/src/main.opp 400es source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 422 source/server/src/main.cpp 423 source/server/src/main.cpp 433 source/server/src/main.cpp 444 source/server/src/main.cpp 445 source/server/src/main.cpp 455 source/server/src/main.cpp 455 source/server/src/main.cpp 465 source/server/src/main.cpp 465 source/server/src/main.cpp 485 source/server/src/main.cpp 486 source/server/src/main.cpp 481 source/server/src/main.cpp 486 source/server/src/main.cpp 492 source/server/src/main.cpp 493	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_08
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CX-286 CX-287 CX-288 CX-289 CX-299 CX-291 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-297 CX-298 CX-300 CX-301 CX-302 CX-301 CX-302 CX-301 CX-302 CX-301 CX-305 CX-305 CX-306 CX-307 CX-308 CX-309 CX-311 CX-311 CX-312 CX-311 CX-312 CX-318 CX-318 CX-318 CX-318 CX-319 CX-320 CX-320 CX-320 CX-320 CX-321		MISRA C 2012 15.6 is violated MISRA C 2012 17.1 is violated	CRITICAL MINOR MINOR MINOR MINOR MINOR MAJOR	Compense Armain 2, 2012, 15, 00
CX-286 CX-287 CX-288 CX-288 CX-288 CX-289 CX-291 CX-291 CX-292 CX-293 CX-295 CX-296 CX-296 CX-296 CX-297 CX-298 CX-300 CX-301 CX-302 CX-303 CX-305 CX-305 CX-305 CX-307 CX-308 CX-307 CX-308 CX-307 CX-308 CX-307 CX-308 CX-307 CX-308 CX-309 CX-310 CX-311 CX-312 CX-315 CX-316 CX-317 CX-316 CX-317 CX-318 CX-317 CX-319 CX-322 CX-322	Source/Server/src/main.cpp	MISRA C 2012 15.6 is violated MISRA C 2012 17.7 is violated MISRA C 2012 17.7 is violated MISRA C 2012 17.1 is violated MISRA C 2012 10.4 is violated MISRA C 2012 11.6 is violated MISRA C 2012 12.1 is violated	CRITICAL MINOR MINOR MINOR MINOR MINOR MINOR MINOR MAJOR	specheckmara g. 2012, 15, 00 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 04 specheckmara g. 2012, 10, 10 specheckmara g. 2012, 12, 10 specheckmara g. 2012, 12, 11 specheckmara g. 2012, 12, 10
CX-286 CX-287 CX-288 CX-289 CX-289 CX-291 CX-291 CX-292 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-297 CX-308 CX-300 CX-301 CX-301 CX-302 CX-303 CX-304 CX-305 CX-305 CX-306 CX-307 CX-308 CX-307 CX-308 CX-308 CX-308 CX-308 CX-309 CX-307 CX-308 CX-308 CX-308 CX-308 CX-308 CX-308 CX-309 CX-308 CX-309 CX-310 CX-311 CX-312 CX-311 CX-312 CX-312 CX-322 CX-322 CX-322		MISRA C 2012 1.5.6 is violated MISRA C 2012 1.5.1 is violated MISRA C 2012 1.5.1 is violated MISRA C 2012 1.5 is violated MISRA C 2012 1.2 is violated	CRITICAL MINOR MINOR MINOR MINOR MINOR MAJOR	Compense Companse
CX-286 CX-287 CX-288 CX-289 CX-289 CX-291 CX-291 CX-292 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-297 CX-308 CX-300 CX-301 CX-301 CX-302 CX-303 CX-304 CX-305 CX-305 CX-306 CX-307 CX-308 CX-307 CX-308 CX-308 CX-308 CX-308 CX-309 CX-307 CX-308 CX-308 CX-308 CX-308 CX-308 CX-308 CX-309 CX-308 CX-309 CX-310 CX-311 CX-312 CX-311 CX-312 CX-312 CX-322 CX-322 CX-322		MISRA C 2012 15.6 is violated MISRA C 2012 17.7 is violated MISRA C 2012 17.7 is violated MISRA C 2012 17.1 is violated MISRA C 2012 10.4 is violated MISRA C 2012 11.6 is violated MISRA C 2012 12.1 is violated	CRITICAL MINOR MINOR MINOR MINOR MINOR MINOR MINOR MAJOR	specheckmara g. 2012, 15, 00 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 17, 07 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 08 specheckmara g. 2012, 10, 04 specheckmara g. 2012, 10, 10 specheckmara g. 2012, 12, 10 specheckmara g. 2012, 12, 11 specheckmara g. 2012, 12, 10
CX-286 CX-287 CX-288 CX-289 CX-289 CX-291 CX-291 CX-292 CX-291 CX-292 CX-293 CX-294 CX-295 CX-296 CX-296 CX-297 CX-308 CX-300 CX-301 CX-301 CX-302 CX-303 CX-304 CX-305 CX-305 CX-306 CX-307 CX-308 CX-307 CX-308 CX-308 CX-308 CX-308 CX-309 CX-307 CX-308 CX-308 CX-308 CX-308 CX-308 CX-308 CX-309 CX-308 CX-309 CX-310 CX-311 CX-312 CX-311 CX-312 CX-312 CX-322 CX-322 CX-322		MISRA C 2012 1.5.6 is violated MISRA C 2012 1.5.1 is violated MISRA C 2012 1.5.1 is violated MISRA C 2012 1.5 is violated MISRA C 2012 1.2 is violated	CRITICAL MINOR MINOR MINOR MINOR MINOR MAJOR	Oppoteckmail C2012, 15, 06

CX-326	source/client/src/app.cpp	740 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-327	source/client/src/app.cpp	753 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-328		769 MISRA C 2012 12.1 is violated	MAJOR	cppcheckmisra_c_2012_12_01
CX-329		775 MISRA C 2012 12.1 is violated	MAJOR	cppcheckmisra_c_2012_12_01
CX-329				
0.1.000		304 MISRA C 2012 12.1 is violated	MAJOR	cppcheck.misra_c_2012_12_01
CX-331		314 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-332		39 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-333	source/client/src/app.cpp	213 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-334		380 MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04
CX-335		118 MISRA C 2012 13.4 is violated	MAJOR	cppcheckmisra_c_2012_13_04
CX-336		426 MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04
CX-337	source/client/src/app.cpp	134 MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04
CX-338	source/client/src/app.cpp	38 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-339	source/client/src/app.cpp	64 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_e_2012_14_04
CX-340	source/client/src/app.cpp	88 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-341				
	source/client/src/app.cpp	101 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-342		104 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-343	source/client/src/app.cpp	135 MISRA C 2012 14.4 is violated	MINOR	cppcheckmisra_c_2012_14_04
CX-344	source/client/src/app.cpp	151 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra c 2012 14 04
CX-345	source/client/src/app.cpp	168 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-346		177 MISRA C 2012 14.4 is violated	MINOR	
				cppcheck:misra_c_2012_14_04
CX-347		394 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-348		475 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-349	source/client/src/app.cpp	487 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-350		191 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-351		192 MISRA C 2012 14.4 is violated	MINOR	Cppcheck.misra c_2012_14_04
CX-352	source/client/src/app.cpp	500 MISRA C 2012 14.4 is violated	MINOR	
CX-352		500 MISRA C 2012 14.4 is violated 534 MISRA C 2012 14.4 is violated	MINOR	cophekimisra c 2012_14_04
				cppcheck:misra_e_2012_14_04
CX-354		551 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-355		334 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-356	source/client/src/app.cpp	336 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-357		573 MISRA C 2012 14.4 is violated	MINOR	cppcheckmista c_2012_14_04
CX-358		375 MISRA C 2012 14.4 is violated	MINOR	opportex.maia_c_zorz_ra-o-
				cppcheck:misra_c_2012_14_04
CX-359		706 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-360	source/client/src/app.cpp	734 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-361	source/client/src/app.cpp	768 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-362	source/client/src/app.cpp	173 MISRA C 2012 15.1 is violated	MAJOR	cppcheck-misra_c_2012_15_01
CX-363			MAJOR	
		352 MISRA C 2012 15.1 is violated		cppcheck.misra_c_2012_15_01
CX-364		362 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-365		367 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-366	source/client/src/app.cpp	372 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-367	source/client/src/app.cpp	377 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-368		384 MISRA C 2012 15.1 is violated	MAJOR	cppcheck.misra_c_2012_15_01
CX-369		115 MISRA C 2012 15.1 is violated	MAJOR	cpp-resonations 2, 2012, 1,0,01 (pp-heckmisra_c_2012, 15,0,11
CX-370		123 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-371		431 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-372	source/client/src/app.cpp	139 MISRA C 2012 15.1 is violated	MAJOR	cppcheck:misra_c_2012_15_01
CX-373		529 MISRA C 2012 15.1 is violated	MAJOR	cppcheck.misra c_2012_15_01
CX-374		173 MISRA C 2012 15.2 is violated	BLOCKER	cppcheck:misra_c_2012_15_02
CX-375		489 MISRA C 2012 15.5 is violated	MINOR	
				cppcheck:misra_c_2012_15_05
CX-376		493 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-377		496 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-378	source/client/src/app.cpp	501 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-379	source/client/src/app.cpp	504 MISRA C 2012 15.5 is violated	MINOR	cppcheck.misra_c_2012_15_05
CX-380	source/client/src/app.cpp	510 MISRA C 2012 15.5 is violated	MINOR	Cppcheckmisra <u>c</u> _2012_15_05
CX-381		54 MISRA C 2012 15.7 is violated	CRITICAL	enochadraire a 2012 15 07
				cppcheckmisra_c_2012_15_07
CX-382		230 MISRA C 2012 21.8 is violated	CRITICAL	cppcheck:misra_c_2012_21_08
CX-383		235 MISRA C 2012 21.8 is violated	CRITICAL	cppcheck:misra_c_2012_21_08
CX-384	source/client/src/app.cpp	241 MISRA C 2012 21.8 is violated	CRITICAL	cppcheck:misra_c_2012_21_08
CX-385	source/client/src/app.cpp	254 MISRA C 2012 21.8 is violated	CRITICAL	cppcheckmisra_c_2012_21_08
CX-386		129 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04
CX-387		163 MISRA C 2012 10.4 is violated	MINOR	cppcheckmisra_c_2012_10_04
CX-388				
	source/server/src/mtcnn.cpp	11 MISRA C 2012 12.1 is violated	MAJOR	cppcheck-misra_c_2012_12_01
CX-389		23 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-390		134 MISRA C 2012 13.3 is violated	MAJOR	cppcheck:misra_c_2012_13_03
CX-391		175 MISRA C 2012 13.3 is violated	MAJOR	cppcheck:misra_c_2012_13_03
CX-392	source/server/src/mtcnn.cpp	17 MISRA C 2012 14.1 is violated	MINOR	cppcheck.misra_c_2012_14_01
CX-393	source/server/src/mtcnn.cpp	98 MISRA C 2012 14 4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-394		122 MISRA C 2012 14.4 is violated	MINOR	cpphereximas <u>C. 2012</u> , 14, 04
CX-394	acuse for a store for forten and	155 MISRA C 2012 14.4 is violated	MINOR	
				cppcheck:misra_c_2012_14_04
CX-396		111 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-397		142 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-398	source/server/src/mtcnn.cpp	184 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-399	source/server/src/mtcnn.cpp	18 MISRA C 2012 15.6 is violated	CRITICAL	Cppcheckmisra c, 2012, 15, 06
CX-400	source/server/src/mtcnn.cpp	28 MISRA C 2012 15.6 is violated	CRITICAL	enochadrativa a 2012 15 DB
				cppcheckmisra_c_2012_15_06
	source/server/src/mtcnn.cpp	111 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_e_2012_15_06
CX-401			CRITICAL	cppcheck:misra_c_2012_15_08
CX-401 CX-402	source/server/src/mtcnn.cpp	142 MISRA C 2012 15.6 is violated		cppcheck:misra_c_2012_15_06
CX-401	source/server/src/mtcnn.cpp	142 MISRA C 2012 15.6 is violated 184 MISRA C 2012 15.6 is violated	CRITICAL	
CX-401 CX-402	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp	184 MISRA C 2012 15.6 is violated		
CX-401 CX-402 CX-403 CX-404	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated	CRITICAL	cppcheck:misra_c_2012_17_07
CX-401 CX-402 CX-403 CX-404 CX-405	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated	CRITICAL CRITICAL	cppcheck.misra_c_2012_17_07 cppcheck.misra_c_2012_17_07
CX-401 CX-402 CX-403 CX-404 CX-405 CX-406	source/server/src/mtonn.cpp source/server/src/mtonn.cpp source/server/src/mtonn.cpp source/server/src/mtonn.cpp source/server/src/mtonn.cpp source/server/src/mtonn.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated 40 MISRA C 2012 21.3 is violated	CRITICAL CRITICAL MINOR	cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_21_03
CX-401 CX-402 CX-403 CX-404 CX-405 CX-406 CX-407	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated 40 MISRA C 2012 21.3 is violated 103 MISRA C 2012 10.1 is violated	CRITICAL CRITICAL MINOR MAJOR	cppcheckmisra_e_2012_17_07 cppcheckmisra_e_2012_17_07 cppcheckmisra_e_2012_10_3 cppcheckmisra_e_2012_10_01
CX-401 CX-402 CX-403 CX-404 CX-405 CX-406	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/faceNet.cpp source/server/src/faceNet.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated 164 MISRA C 2012 21.3 is violated 103 MISRA C 2012 10.1 is violated 103 MISRA C 2012 10.1 is violated	CRITICAL CRITICAL MINOR	cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_21_03
CX-401 CX-402 CX-403 CX-404 CX-405 CX-406 CX-407	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/faceNet.cpp source/server/src/faceNet.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated 164 MISRA C 2012 21.3 is violated 103 MISRA C 2012 10.1 is violated 103 MISRA C 2012 10.1 is violated	CRITICAL CRITICAL MINOR MAJOR	cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_17_07 cppcheckmisra_c_2012_21_03 cppcheckmisra_c_2012_001 cppcheckmisra_c_2012_10_01 cppcheckmisra_c_2012_10_04
CX-401 CX-402 CX-403 CX-404 CX-405 CX-406 CX-407 CX-408	source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/mtcnn.cpp source/server/src/faceNet.cpp source/server/src/faceNet.cpp	184 MISRA C 2012 15.6 is violated 129 MISRA C 2012 17.7 is violated 163 MISRA C 2012 17.7 is violated 40 MISRA C 2012 21.3 is violated 103 MISRA C 2012 10.1 is violated	CRITICAL CRITICAL MINOR MAJOR MINOR	cppcheckmisra_e_2012_17_07 cppcheckmisra_e_2012_17_07 cppcheckmisra_e_2012_10_3 cppcheckmisra_e_2012_10_01

CX-410	source/server/src/faceNet.cop 3	11 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04	
CX-411		2 MISRA C 2012 12.1 is violated	MAJOR		
				cppcheck:misra_c_2012_12_01	
CX-412		MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-413	source/server/src/faceNet.cpp	5 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-414		0 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-415		8 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-416	source/server/src/faceNet.cpp 12	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-417	source/server/src/faceNet.cpp 14	6 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-418		5 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra c 2012 14 04	
CX-419					
		MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-420	source/server/src/faceNet.cpp 3	7 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-421	source/server/src/faceNet.cpp 33	IO MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-422			MINOR	cppcheck:misra_c_2012_15_05	
CX-423			MINOR	cppcheck:misra_c_2012_15_05	
CX-424	source/server/src/faceNet.cpp 3	2 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-425		3 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-426		5 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-427		8 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-428	source/server/src/faceNet.cpp	8 MISRA C 2012 15.7 is violated	CRITICAL	cppcheck:misra_c_2012_15_07	
CX-429	source/server/src/faceNet.cpp 25	MISRA C 2012 15.7 is violated	CRITICAL	cppcheck:misra_c_2012_15_07	
CX-430		4 MISRA C 2012 17.7 is violated	CRITICAL		
			+	cppcheck:misra_c_2012_17_07	
CX-431		0 MISRA C 2012 17.8 is violated	MINOR	cppcheck:misra_c_2012_17_08	
CX-432		2 MISRA C 2012 17.8 is violated	MINOR	cppcheck:misra_c_2012_17_08	
CX-433	source/server/src/faceNet.cpp 25	8 MISRA C 2012 20.1 is violated	MAJOR	cppcheck:misra_c_2012_20_01	
CX-434		4 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03	
CX-435		5 MISRA C 2012 21.3 is violated			
			MINOR	cppcheck:misra_c_2012_10_04	
CX-436		6 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04	
CX-437	source/server/src/network.cpp	8 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04	
CX-438			MINOR	cppcheck:misra_c_2012_10_04	
CX-439		7 MISRA C 2012 10.4 is violated	MINOR		
				cppcheck:misra_c_2012_10_04	
CX-440		8 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04	
CX-441	source/server/src/network.cpp	4 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-442		5 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-443		5 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra c 2012 12 01	
CX-444			MAJOR	cppcheck:misra_c_2012_12_01	
CX-445	source/server/src/network.cpp	7 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-446			MAJOR	cppcheck:misra_c_2012_12_01	
CX-447		6 MISRA C 2012 12.1 is violated	MAJOR		
				cppcheck:misra_c_2012_12_01	
CX-448		6 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-449	source/server/src/network.cpp	7 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-450		8 MISRA C 2012 12 3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-451		7 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
			-		
CX-452			MINOR	cppcheck:misra_c_2012_14_04	
CX-453	source/server/src/network.cpp	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-454	source/server/src/network.cpp	IS MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-455		11 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-456		5 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-457	source/server/src/network.cpp	8 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-458	source/server/src/network.cpp	2 MISRA C 2012 15.5 is violated	MINOR	oppoheck:misra c 2012 15 05	
CX-459	source/server/src/network.cpp	4 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-460		8 MISRA C 2012 15.5 is violated	MINOR		
				cppcheck:misra_c_2012_15_05	
CX-461		MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05	
CX-462	source/server/src/network.cpp	1 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-463		3 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-464		3 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
			-		
CX-465		MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-466	source/server/src/network.cpp	6 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-467	source/server/src/network.cpp 12	2 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-468		3 MISRA C 2012 15.6 is violated	CRITICAL	oppcheck:misra c 2012 15 06	
CX-469		4 MISRA C 2012 15.6 is violated	CRITICAL		
CX-469			-	cppcheck:misra_c_2012_15_06	
		5 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06	
CX-471		3 MISRA C 2012 15.7 is violated	CRITICAL	cppcheck:misra_c_2012_15_07	
CX-472	source/server/src/network.cpp	9 MISRA C 2012 17.8 is violated	MINOR	cppcheck:misra_c_2012_17_08	
CX-473		6 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-474		6 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-475		7 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-476		8 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-477	source/server/src/pnet_rt.cpp 14	9 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-478		3 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01	
CX-479		11 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
			MAJOR		
CX-480		MISRA C 2012 12.3 is violated		cppcheck:misra_c_2012_12_03	
CX-481		7 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-482	source/server/src/pnet_rt.cpp	11 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03	
CX-483		7 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-484			MINOR	opportunition_C_2012_14_04	
				cppcheck:misra_c_2012_14_04	
CX-485			MINOR	cppcheck:misra_c_2012_14_04	
CX-486	source/server/src/pnet_rt.cpp	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04	
CX-487		i2 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra c 2012 15 06	
CX-488			CRITICAL		
		1 MISRA C 2012 17.7 is violated		cppcheck:misra_c_2012_17_07	
CX-489	source/server/src/pnet_rt.cpp	6 MISRA C 2012 17.7 is violated	CRITICAL	cppcheck:misra_c_2012_17_07	
CX-490		5 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03	
CX-491		6 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03	
CX-491					
		7 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03	
CX-493	source/server/trt_l2norm_helper/l2norm_helper.cpp	8 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04	
-					

CX-494	source/server/trt I2norm helper/I2norm helper.cpp	35 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-495		68 MISRA C 2012 12.1 is violated	MAJOR	cppcheckmisra_c_2012_12_01
CX-496		81 MISRA C 2012 12.1 is violated	MAJOR	
				cppcheck:misra_c_2012_12_01
CX-497		86 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_e_2012_12_01
CX-498	source/server/trt_l2norm_helper/l2norm_helper.cpp 1	08 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-499	source/server/trt_i2norm_helper/i2norm_helper.cpp	16 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-500	source/server/trt I2norm helper/I2norm helper.cpp	17 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-501				
		20 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-502		23 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_e_2012_12_03
CX-503	source/server/trt_l2norm_helper/l2norm_helper.cpp	28 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-504		73 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-505		49 MISRA C 2012 12.3 is violated	MAJOR	
				cppcheck:misra_c_2012_12_03
CX-506	source/server/src/onet_rt.cpp	64 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04
CX-507	source/server/src/onet_rt.cpp	65 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04
CX-508		66 MISRA C 2012 10.4 is violated	MINOR	cppcheck.misra_c_2012_10_04
CX-509		37 MISRA C 2012 12.3 is violated	MAJOR	
				cppcheck:misra_c_2012_12_03
CX-510		63 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-511	source/server/src/onet_rt.cpp	64 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-512	source/server/src/onet_rt.cpp	65 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-513		66 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-514			MAJOR	
		00 MISRA C 2012 10.1 is violated		cppcheck:misra_c_2012_10_01
CX-515		16 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-516		50 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-517		55 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-518		12 MISRA C 2012 14.4 is violated	MINOR	cppcheck/misra_c_2012_14_04
CX-519		91 MISRA C 2012 15.6 is violated	CRITICAL	
			-	cppcheck:misra_e_2012_15_06
CX-520	source/common/Logger.cpp	6 MISRA C 2012 3.1 is violated	MINOR	cppcheckmisra_c_2012_03_01
CX-521	source/common/Logger.cpp	26 MISRA C 2012 3.1 is violated	MINOR	cppcheck:misra_c_2012_03_01
CX-522	source/common/Logger.cpp	7 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-523	source/common/Logger.cpp	9 MISRA C 2012 4.1 is violated	CRITICAL	copcheck-misra_c_2012_04_01
CX-523				
		10 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-525	source/common/Logger.cpp	11 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-526	source/common/Logger.cpp	12 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-527	source/common/Logger.cpp	13 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-528		14 MISRA C 2012 4.1 is violated	CRITICAL	cppcheckmisra_c_2012_04_01
CX-529			CRITICAL	
	source/common/Logger.cpp	15 MISRA C 2012 4.1 is violated	-	cppcheck:misra_c_2012_04_01
CX-530		16 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-531	source/common/Logger.cpp	18 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-532	source/common/Logger.cpp	19 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-533	source/common/Logger.cpp	20 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck.misra_c_2012_04_01
CX-534		21 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck.misra_c_2012_04_01
CX-535		22 MISRA C 2012 4.1 is violated	CRITICAL	
				cppcheck:misra_c_2012_04_01
CX-536		23 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-537	source/common/Logger.cpp	24 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-538		25 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra c 2012 04 01
CX-539		27 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-540		28 MISRA C 2012 4.1 is violated	CRITICAL	
			-	cppcheck:misra_c_2012_04_01
CX-541	source/common/Logger.cpp	29 MISRA C 2012 4.1 is violated	CRITICAL	cppcheck:misra_c_2012_04_01
CX-542	source/common/Logger.cpp	70 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-543	source/common/Logger.cpp 1	45 MISRA C 2012 12.1 is violated	MAJOR	cppcheck:misra_c_2012_12_01
CX-544		50 MISRA C 2012 12.1 is violated	MAJOR	cppcheck.misra_c_2012_12_01
CX-545		58 MISRA C 2012 12.1 is violated	MAJOR	cppcheckmisra c_2012_12_01
CX-546		29 MISRA C 2012 12.3 is violated	MAJOR	cppcheckmisra_c_2012_12_03
CX-547		16 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-548	source/common/Logger.cpp	38 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-549		65 MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-550		52 MISRA C 2012 15.5 is violated	MINOR	Cppcheck.misra_c_2012_15_05
CX-551		53 MISRA C 2012 15.5 is violated	MINOR	
				cppcheck:misra_e_2012_15_05
CX-552		54 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-553	source/common/Logger.cpp	55 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-554	source/common/Logger.cpp	56 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-555		57 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-556		58 MISRA C 2012 15.5 is violated	MINOR	Cppcheckmisra_c_2012_15_05
CX-557				
		71 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-558		17 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-559		20 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-560	source/common/Logger.cpp 1	55 MISRA C 2012 15.7 is violated	CRITICAL	cppcheck:misra_c_2012_15_07
CX-561		53 MISRA C 2012 10.4 is violated	MINOR	cppcheck:misra_c_2012_10_04
CX-562		54 MISRA C 2012 10.4 is violated	MINOR	emphasization a 2012 10 04
				cpptheckmistra_c_2012_10_04
CX-563	source/server/src/met_rt.cpp	34 MISRA C 2012 12.3 is violated	MAJOR	cppcheck:misra_c_2012_12_03
CX-564		52 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-565	source/server/src/met_rt.cpp	53 MISRA C 2012 21.3 is violated	MINOR	cppcheck:misra_c_2012_21_03
CX-566		54 MISRA C 2012 21.3 is violated	MINOR	cppcheck/misra_e_2012_21_03
CX-567		42 MISRA C 2012 15.5 is violated	MINOR	cppcheckmista c_2012_15_05
CX-568			MINOR	population and the partial region of the par
		48 MISRA C 2012 15.5 is violated		cppcheck:misra_c_2012_15_05
CX-569		54 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-570	source/common/openssl_hostname_validation.cpp	61 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-571	source/common/openssl hostname validation.cpp	66 MISRA C 2012 15.5 is violated	MINOR	cppcheck.misra c_2012_15_05
CX-572		71 MISRA C 2012 15.5 is violated	MINOR	Cppcheckmisra c_2012_15_05
CX-573		74 MISRA C 2012 15.5 is violated	MINOR	coportion in the control of the cont
CX-574		97 MISRA C 2012 15.5 is violated	MINOR	cppcheck/misra_c_2012_15_05
	source/common/openssl_hostname_validation.cpp	50 MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-575				
CX-575 CX-576		49 MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
	source/common/openssl_hostname_validation.cpp 1		-	cpprheckmisra_e_2012_15_06
CX-576	source/common/openssl_hostname_validation.cpp 1	49 MISRA C 2012 15.6 is violated 54 MISRA C 2012 12.1 is violated	CRITICAL	cppcheckmisra_c_2012_15_06 cppcheckmisra_c_2012_12_01

CX-578	source/server/src/common.cpp	50	MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra c 2012 13 (
CX-579	source/server/src/common.cpp	52	MISRA C 2012 13.4 is violated	MAJOR	cppcheck:misra_c_2012_13_04
CX-580	source/server/src/common.cpp	69	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04
CX-581	source/server/src/common.cpp	70	MISRA C 2012 15.5 is violated	MINOR	cppcheck:misra_c_2012_15_05
CX-582	source/server/src/common.cpp	41	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-583	source/server/src/common.cpp	69	MISRA C 2012 15.6 is violated	CRITICAL	cppcheck:misra_c_2012_15_06
CX-584	source/server/src/common.cpp	15	MISRA C 2012 21.8 is violated	CRITICAL	cppcheck:misra_c_2012_21_08
CX-585	source/server/src/videoStreamer.cpp	4	MISRA C 2012 14.4 is violated	MINOR	cppcheck:misra_c_2012_14_04

Attack Scenario_KO

WL Kang								
YK CHOI								
DH Han							Defect Exists	내재된 결항을 발견했으나 연관된 보안 issue에 대
SW Cha			BrainStorming for Attack	write in Korean first			On-Progress	공격 진행 중
SJ Lee							Attack Fail	공격자 관점에서 공격 실패
							Attack Sucess	공격자 관점에서 공격 성공
ID	Reconnaissance Phase	Condition 재현 가능한 조건	Vulnerability	Attack Scenario	How to test?	Threat (Expected result by attack)	Status	Mitigation (Recommendation)
AS-00 (example)	어떻게 발견했는지	(e.g., Server Application 실행 시	발견한 취약정 (eg, Server Application이 5000번 이외의 포트	고경 세 121 수	Test Tool			
	packet sniffing, Nessus, etc.)	V2 20000 (invalid port num))	를 허용하지 않음) 여러명이 'New Person'으로 보이는 경우, meta값	(e.g., 5000번 포트를 점유하는 daemon 실행)	(Metasploit, Zuff, Peach, etc.)		Defect Exists - 다른 사랑 얼굴 저장	
AS-01	Code Review, 클라이언트 실행 중	Learning모드 사용을 위한 pause버튼 진입시	이지 않음 (app.cpp line121) Denial of Service	두 사람 이상이 'New Person'인 상태에서 pause - secure적인 문제인가?	1. Client에서 Login 2. 등록되지 않은 사람을 다수 모아놓고 Pause	의도하지 않은 다른 얼굴이 저장될 수 있음	가능	<u> </u>
AS-02	문서 분석 - Threat Modeling	서버 앱 실행 시	(Camera Unit crashes, halts, stops or runs slowly; in all cases violating an availability metric.) Input validation check	카메라 점유하는 daemon 실행. 또는 dev/video0 의 접 근 제한? 권한 상승을 통한 remote control?	비디오 정유하는 프로그램 작성 (e.g., using python) init.d 추가	서버 실행 불가	On-Progress (password hacking 에 의한 침투 성공)	<u> </u>
AS-03	문서 분석 - Security Requirement	서버로 데이터 전달		클라이언트에서 서버로 데이터 전달 시, 데이터 번조 하 여 서버로 invalid 데이터 입력	Wireshark - Replay attack?			
AS-04	문서 분석 - Threat Modeling	클라이언트 접속 시도 시, 또는 접속 중	Denial of Service (네트워크 트래픽 공격 to server or client)	서버 또는 클라이언트 IP주소 또는 port 타겟으로 DoS 공격	ICMP Ping Command, 여의치 않을 시 아래의 DDos Attack Tools 中 1 SolarWinds SEM Tool, HULK, Tor's Hammer, Slowloris, LOIC, XOIC	서버와 클라이언트 간 동신 불가	공격 성공	
AS-05	문서 분석 - Security Requirement . Code Review		Input validation check 클라이언트 앱에서 패스워드 체크시	로그인 ID/PW 일력 시 1. Emply string 2. Include characters or symbols not IP formated. 3. Externly long characters 4. (SJ) Malformed data : wrong type, wrong sign(?), zero (not null)	Zuff, Brute Force 오픈 API 취약점 (g. recex xxxx)			
AS-06	,	V2 20000 (IIIValia port Halli)			5000번 포트를 정유하는 프로그램 작성 (e.g., using python)		On-Progress (password hacking	_
AS-07	프로그램 실행 (서버 앱)		서버 앱이 5000번 이외의 포트를 허용하지 않음 TLS12 부약집 POODLE(Padding Oracle On Downloaded- Legacy Encryption), SLOTH(Security Losses- from Obsolete and Truncated Transcript Haphan): 그리고 TSPOWMYDrecoynting RSA with	5000번 포트를 정유하는 daemon 실행	init.d 추가	서버 실행 불가	에 의한 침투 성공)	
	문서 분석 Security Requirement	서비 클라이언트 통신	Obsolete and Weakened eNcryption)	통신 중 패킷 가로채서 변조 하여 전송	Wireshark MITM			
AS-08	B !! # #	E	Certificate & Key 저장소 접근 권한에 대한 처리	OURSELL A MAIN TITLES COMES IN A SECURE				
AS-09	문서 분석 - Security Requirement		내용 없음 양호화된 이미지 파일 로딩 후 jpeg format 여부 확인 절차가 없음	Certificate & Key 저장된 디렉토리 삭제 혹은 번조	libcertcheck.a, certcheck.h 내 enc_ssl_mf 항수를 이용해 dummy data를 갖고 양호화된 파일 생성	opency 이용한 이미지 디코딩 과정	Attack Success	
AS-10	Code Review 문서 분석 - Security Requirement	서버 앱 실행 시		dummy data를 양호화 시킨 파일을 asset/imgs에 추가 Certificate & Key 를 훔쳐서, 다른 client 또는 다른	(서버 앱 내부든 따로 앱을 만들어서 수행) 다른 malformed app이나 command line으로 홍친 ceritificate를 가	에서의 문제로 서버 종료		-
AS-10 AS-11	/ Architecture	통신 시도	Certificate & Key가 Encryption 되지 않음	server로 가장하여 정보를 취득할 수 있음 g_assii_strtell의 취약점이 있다면port arg에 5000대신 5000으로 시작하는 아무 문자원을 추가하여	지고 접속을 시도함 - port arg에 5000대신 5000로 시작하는 아무 문자열 임력 테스트-	malformed app 연결		
	Code-Review	사비 앱 신행시	g_ascii_strtoll의 vulnerability가 있다면	bufferoverflow 등을 유받	AFL2 method 1. 단순 파일 없애기			
AS-12	Code Review	클라이언트 접속 시도시	id/pw가 들어있는 파일(./asset/credential)이 보임 remote.config에 적힌 서버의 ip주소가 노출되어	crudential 파일 자체를 없애거나 다른행태로 바꾸면 관 리자마저도 로그인 불가능	method 2. 다른 id/pw인 crudential파일로 대체하여 로그인 (libcertcheck.a, certcheck.h 내 enc_ssl_mf 함수를 이용)	admin으로 로그인 불가		
AS-13	Code Review	클라이언트 실행 시	있음	mutate fuzzing으로 remote.config파일을 손상시킴	ZZUF 사용	클라이언트 앱 종료		
AS-14	문서 분석 - Security Requirement / Architecture	클라이언트 앱에서 로그인 시	이미지가 저장되어 있는 storage 에 접근하여 삭 제 가능화?	서버의 이미지가 저장되어 있는 storage에 접근하여 이 미지를 삭제한다.	서버에 접근하여 이미지 삭제	클라이언트를 사용 못 하게 만등	Attack Success	<u> </u>
AS-15	Code Review	클라이언트 접속 시도시	하나의 포트에 대해서 4개 소켓 접속 시도 로그인 확인은 첫번째 소켓에서만 함	timing attack 만약 로그인 된 후 다음 소켓 접속 전에 어태커가 접속하 면?		video 추출	On-Progress	
AS-16	Code Review	클라이언트 접속 시도시	위와 동일	timing attack 계속 접속 시도하면 접속이 꼬일것.	sleep, input 등으로 덜레이를 주어 timing attack	서비스 불가. 서버 죽음	Attack Success	
AS-17	Code Review	클라이언트 로그인 시	기존 admin의 얼굴이 녹화된 파일을 /dev/video 로 바꿔칭	ID와 Passwd만 알면 아무나 접속 가능해짐	우선 Admin얼굴이 녹화된 파일을 구해서 /dev/video로 feeding되 게 해준다. ref: https://askubuntu.com/questions/881305/is-there-any-way- ffmpag-send-video-to-dev-video0-on-ubuntu	unauthorized user		
AS-18	Code Review	세 얼굴 추가시	id/pw가 공격당해 admin이 아닌 다른 것으로 바 전 경우, 새 얼굴 추가시 바뀐 id의 이름으로 저장 하면 해당 얼굴로 로그만이 가능	1. id/pw가 당긴 credential파일을 공격해 id/pw를 반경 (ex. attacker) 2. attacker로 로그인 후 새 얼굴 추가시 attacker라는 이 용으로 자칭 후로그아웃 3. 다시 attacker로 로그인 시 새로 저장한 인물로 얼굴 인공	다른 id/pw인 credential파일로 대체하여 로그인 (libcertcheck.a, certcheck.h 내 enc_ssl_mt 항수를 이용)	새로 저장한 얼굴로 admin 이 아닌 다 른 계정으로 로그인 가능		
AS-19				파일재생이 다 끝나면?		마지막 프레임 상태로 유지. 종료되	Attack Success	A .
AS-20	Code Review	Test모드에서 파일재생시	파일재생종료에 대한 처리가 없음	-> Live로 가려 했던거 같은데 전 에러나더라구요	Test모드로 전환 후 동영상 종료시 동작 확인	지않음	minated with log - Empty frame! Exiti Attack Success	29
AS-20 AS-21	Code Review Document Review	클라이언트 접속 시도시 Static Analysis Document	동시 접속 시도에 대한 처리가 없음 /cmu_project/source/server/src/faceNet.cop;	동시 로그인 시도	동시 로그인 시도	서비스 불가. 서버 죽음	Allaux Success	4
			311: [1] (buffer) strlen: Does not handle strings that are not \(\tilde{0}\)-terminated; if given one it may perform an over-read (it could cause a crash if unprotected) (CWE-126).			다른 공격을 눈치채지 못할 수 있음		
		서버 실행 후 port listen 중	handshaking 실폐시 서버가 바로 shutdown 됨 (DoS공격의 기회)	다른 application에서 5000번에 대한 port로 연결 시도	nmap으로 서버 내 port를 scan	스캔 중 handshake fail이 나도 종료 되지않고 서버 유지	Attack Success	4
AS-22	nmap		클라이언트 앱에서 접속 서버의 ip 주소를 관리하					
AS-22 AS-23	nmap Code Review	클라이언트 앱 실행	클라이언트 앱에서 접속 서버의 ip 주소를 관리하고 읽는 remote.config 파일이 invalid 할 경우 클라이언트 앱 비정상 종료		remote.config 파일 수정	클라이언트 앱 사용불가		
			고 읽는 remote.config 파일이 invalid 할 경우 클라이언트 앱 비정상 종료	카메라 내용 바꿔치기 등을 사용자가 눈치쁜 수 없음 (현재 인식에 사용되는 화면을 보여주어야 하지 않을까?		클라이언트 앱 사용불가	Defect Exists Defect Exists	

Attack Scenario Notes

[1] AS-XX can be found in the "AttackScenario_EN" sheet.