

Phase 2. Code Review Report				
			Team 5verFlow	
			23 Jun	

[illegible]

[illegible]

CDR-003	23 Jun				
Speaker	SW Cha				
Reviewer	DH Han, YK Choi, WL Cha, SJ Lee, YJ Lee				
Objective	Authentication and Password Management				
Defects	Defect003-01	App::connect_server() at app.cpp:349 Enforce account disabling after an established number of invalid login attempts (e.g., five attempts is common). The account must be disabled for a period of time sufficient to discourage brute force guessing of credentials, but not so long as to allow for a denial-of-service attack to be performed !!! it can be target of brute force attack -> insert some time delay when failure or follow the guidance.			
	Defect003-02	App::connect_server() at app.cpp:355~357 if certi files are replace then always fail to log in !!! it can be target of DoS attack			
	Action Item	it could be target of fuzz testing			

```

if (0 != check_client_cert()) {
    LOG_WARNING("Certificate Error");
    show_dialog("Certificate Error");
    goto exit;
}

```

```

ca = getfilepath_ca_cert();
crt = getfilepath_client_cert();
key = getfilepath_client_key();

```

CDR-004	23 Jun		
Speaker	SW Cha		
Reviewer	DH Han, YK Choi, WL Cha, SJ Lee, YJ Lee		
Objective	Session Management		
Defects	Defect004-01	App::connect_server() at app.cpp:388, 638, 653	TcpSendLoginData( <b>this-&gt;</b> port_control, m_Entry_Id.get_text().c_str(), m_Entry_Password.get_text().c_str()), show_dialog("Show your face on camera within 5sec");
		There are no return value check	
		!!! User may confused although request was failed	
	Defect004-02	App::connect_server() at app.cpp:418, 426, 434	if (( <b>this-&gt;</b> port_secure = OpenTcpConnection( <b>this-&gt;</b> remote_ip, "5000", ca, crt, key)) == NULL) // Open
		There are no authentication for additional connection after login	{ LOG_WARNING("error open port_secure"); disconnect_server(); show_dialog("Connection Fail"); goto exit; }
		!!! it can be session hijacking	
Action Item	need further investigation		
			if (( <b>this-&gt;</b> port_nonsecure = OpenTcpConnection( <b>this-&gt;</b> remote_ip, "5000", NULL, NULL, NULL)) == NULL), non secure mode

6

CDR-005	23 Jun	
Speaker	SW Cha	
Reviewer	DH Han, YK Choi, WL Cha, SJ Lee, YJ Lee	
Objective	Communication Security	
Defects		
Action Item		great