

SERTIT-043 CR Certification Report

Issue 0.1 4 March 2013

ZTE Access System Series ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2



CERTIFICATION REPORT - SERTIT STANDARD REPORT TEMPLATE SD 009 VERSION 2.1 11.11.2011

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* Mutual Recognition under the CC recognition arrangement applies to EAL 2 but not to ALC_FLR.2.



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ZTE Access System Series

EAL 2 + ALC_FLR.2

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1 Certification Statement

ZTE Corporation ZTE Access System Series is an Access System, which regulates the access between networks, like a provider IP network or the PSTN or subscribers, who wish to access these networks.

ZTE Access System Series version ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2 has been evaluated under the terms of the Norwegian Certification Scheme for IT Security and have met the Common Criteria Part 3 (ISO/IEC 15408) conformant requirements of Evaluation Assurance Level EAL 2 augmented with ALC_FLR.2 for the specified Common Criteria Part 2 (ISO/IEC 15408) conformant functionality in the specified environment when running on the platforms specified in Annex A.

Author	Kvassnes, Kjartan Jæger Certifier
Quality Assurance	Arne Høye Rage Quality Assurance for Klage
Approved	Kjell W. Bergan Head of SERTIT Gun W. Burgan
Date approved	4 March 2013

2 Abbreviations

ADSL	Asymmetric DSL
AGCF	Access Gateway Control Function
ATM	Asynchronous Transfer Mode
BGP	Border Gateway Protocol
BRI	Basic Rate Interface
СС	Common Criteria for Information Technology Security Evaluation (ISO/IEC 15408)
CCRA	Arrangement on the Recognition of Common Criteria Certificates in the Field of Information Technology Security
CEM	Common Methodology for Information Technology Security Evaluation
CLI	Command Line Interface
DHCP	Dynamic Host Configuration Protocol
DSL	Digital Subscriber Line
E&M	Earth & Magneto
EAL	Evaluation Assurance Level
EMS	Element Management System
EOR	Evaluation Observation Report
EPNI	EPON Network Interface
EPON	Ethernet PON
ETR	Evaluation Technical Report
EVIT	Evaluation Facility under the Norwegian Certification Scheme for IT Security
EWP	Evaluation Work Plan
FE	Fast Ethernet
FTP	File Transfer Protocol
GE	Gigabit Ethernet
GPNI	GPON Network Interface
GPON	Gigabit PON
IGMP	Internet Group Management Protocol
IMS	IP Multimedia Subsystem
IP	Internet Protocol

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IPTV	IP Television
ISDN	Integrated Services Data Network
ISIS	Intermediate System to Intermediate System
IUA	ISDN User Adaptation
LE	Local Exchange
NGN	Next Generation Network
NTP	Network Time Protocol
OLT	Optical Line Terminal
OSPF	Open Shortest Path First
P-CSCF	Proxy Call Session Control Function
PIM	Protocol Independent Multicast
PIM-DM	PIM Dense Media
PIM-SM	PIM Sparse Media
POC	Point of Contact
PON	Passive Optical Network
POTS	Plain Old Telephony Service
PPP	Point to Point Protocol
PPPoE	PPP over Ethernet
PRI	Primary Rate Interface
PSTN	Public Switched Telephone Network
PWE3	Pseudo Wire Emulation Edge - Edge
QP	Qualified Participant
RADIUS	Remote Authentication Dial In User Service
RCTP	Real Time Control Protocol
RIP	Routing Information Protocol
RTP	Real Time Protocol
SCP	Session Control Protocol
SERTIT	Norwegian Certification Authority for IT Security
SHDSL	Single Rate High Speed DSL
SIP	Session Initiation Protocol
SNMP	Simple Network Management Protocol

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SPM	Security Policy Model
SSH	Secure Shell
ST	Security Target
TACACS	Terminal Access Controller Access Control System
TFTP	Trivial FTP
TOE	Target of Evaluation
TSF	TOE Security Functions
TSP	TOE Security Policy
VDSL	Very High Bit Rate DSL
VF	Voice Frequency
xPON	EPON or GPON

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3 References

- [1] Security Target of the ZTE Access System Series ZXA10 C300/C300M/C350M, v 1.0, 2 August 2012.
- [2] Common Criteria Part 1, CCMB-2009-07-001, Version 3.1 R3, July 2009.
- [3] Common Criteria Part 2, CCMB-2009-07-002, Version 3.1 R3, July 2009.
- [4] Common Criteria Part 3, CCMB-2009-07-003, Version 3.1 R3, July 2009.
- [5] The Norwegian Certification Scheme, SD001E, Version 8.0, 20 August 2010.
- [6] Common Methodology for Information Technology Security Evaluation, Evaluation Methodology, CCMB-2009-07-004, Version 3.1 R3, July 2009.
- [7] Common Criteria EAL2+ Evaluation of ZTE Access System Series ZXA10 C300/C300M/C350M, v 1.1, 14 August 2012.
- [8] ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (CLI) Version R1.0
- [9] ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (NetNumen) Version R1.0
- [10] ZXA10 C300M(V3.0) Multi-service Access Equipment Configuration Manual (CLI) Version R1.0
- [11] ZXA10 C300M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) Version R1.0
- [12] ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (CLI) Version R1.0
- [13] ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) Version R1.0

4 Executive Summary

4.1 Introduction

This Certification Report states the outcome of the Common Criteria security evaluation of ZTE Access System Series version ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2 to the Sponsor, ZTE Corporation, and is intended to assist prospective consumers when judging the suitability of the IT security of the product for their particular requirements.

Prospective consumers are advised to read this report in conjunction with the Security Target[1] which specifies the functional, environmental and assurance evaluation requirements.

4.2 Evaluated Product

The versions of the product evaluated were ZTE Access System Series - ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2.

This product is also described in this report as the Target of Evaluation (TOE). The developer was ZTE Corporation.

The TOE regulates the access between networks, like a provider IP network or the PSTN or subscribers, who wish to access these networks.

Details of the evaluated configuration, including the TOE's supporting guidance documentation, are given in Annex A.

4.3 TOE scope

The TOE scope is described in the ST[1], chapter 1.3.

4.4 Protection Profile Conformance

The Security Target[1] did not claim conformance to any protection profile.

4.5 Assurance Level

The assurance incorporated predefined evaluation assurance level EAL 2, augmented by ALC_FLR.2. Common Criteria Part 3[4] describes the scale of assurance given by predefined assurance levels EAL1 to EAL7. An overview of CC is given in CC Part 1[2].

4.6 Security Policy

There are no Organizational Security Policies or rules with which the TOE must comply.

4.7 Security Claims

The Security Target[1] fully specifies the TOE's security objectives, the threats which these objectives meet and security functional requirements and security functions to elaborate the objectives. All of the SFR's are taken from CC Part 2[3]; use of this standard facilitates comparison with other evaluated products.

4.8 Threats Countered

• T.UNAUTHORISED_ADMIN

TA.NETWORK or TA.SUBSCRIBER gains access to the management functionality of the TOE.

• T.UNAUTHORISED_ACCESS

TA.SUBSCRIBER gains access to a service on a Network that he is not authorized to access

• T.PHYSICAL_ATTACK

TA.PHYSICAL gains physical access to the TOE and is able to perform actions on the TOE.

T.INTEGRITY

TA.SUBSCRIBER is able to modify traffic from/to another subscriber

T.CONFIDENTIALITY

TA.SUBSCRIBER is able to read traffic from/to another subscriber

4.9 Threats Countered by the TOE's environment

There are no threats countered by the TOE's environment.

4.10 Threats and Attacks not Countered

No threats or attacks that are not countered are described

4.11 Environmental Assumptions and Dependencies

The Security Target describes one assumption:

It is assumed that the Network(s) (except the Management Network) are trusted, such that they will not interfere with subscriber traffic. It is also assumed that the EMS, RADIUS and TACACS+ servers will not be used to attack the TOE.

4.12 IT Security Objectives

• 0.ACCESS

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The TOE shall ensure that subscribers have only access to the services on the networks that they are entitled to.

• 0.MANAGE_ACCESS

The TOE shall offer administrators the possibility to modify the access that subscribers have to networks.

• 0.AUTHENTICATE_ADMIN

The TOE shall identify and authenticate administrators before allowing them access to administrative functions.

• O.ENCRYPTED_MANAGEMENT

The TOE shall offer an encrypted channel for administrative actions, preventing disclosure, insertion and/or modification of administrative commands.

• 0.SEPARATION_OF_PORTS

The TOE shall offer physical ports, and be able to separate traffic between different ports, such that:

- It is not possible to listen in on traffic from one port on a different port
- It is not possible to modify traffic on one port from another port
- O.xPON (only on TOEs offering xPON)

THE TOE shall offer physical xPON ports to subscribers, such that:

- It is not possible for one subscriber on a xPON port to listen in on traffic from/to other subscribers on that xPON port
- It is not possible for one subscriber on a XPON port to modify traffic from/to other subscribers on that xPON port

4.13 Non-IT Security Objectives

• OE.PHYSICAL_SECURITY

The operator shall ensure that the TOE shall be protected from physical attacks.

• OE.MULTIPLE_SUBSCRIBERS

Where multiple subscribers are connected to a single non-xPON port, and it is desired that the confidentiality and/or integrity of traffic from/to a subscriber shall be protected from other subscribers, this must be arranged by the environment.

• OE.TRUSTED_NETWORK

The environment shall ensure that the Network(s) are trusted (except the Management Network), such that they will not interfere with subscriber traffic

and that the EMS, RADIUS and TACACS+ servers will not be used to attack the TOE.

4.14 Security Functional Requirements

The following Security Functional requirements were used:

- FMT_SMR.1 Security roles
- FIA_UID.2 User identification before any action
- FIA_UAU.2 User authentication before any action
- FMT_SMF.1 Specification of Management Functions
- FTP_ITC.1 Inter-TSF trusted channel (not relevant for FSAP 9800 V1.0.6P9)
- FDP_IFC.1 Subset information flow control
- FDP_IFF.1 Simple security attributes

Details on the usage of there requirements are described in the ST[1], chapter 5.3

4.15 Security Function Policy

The TOE has the following general functionalities:

- Provide access of subscribers to networks (and vice versa)
- Convert the protocols used by the subscribers to protocols suitable for the networks (and vice versa)
- Allow management of itself through a Management Network

The TOE

- provides secure management of itself, to ensure that only properly authorized staff can manage the TOE
- ensures that subscribers have only access to the networks and functionalities/entities on those networks that they are entitled to
- ensures that subscribers cannot read traffic from/to other subscribers
- ensures that subscribers cannot modify traffic from/to other subscribers.

4.16 Evaluation Conduct

The evaluation was carried out in accordance with the requirements of the Norwegian Certification Scheme for IT Security as described in SERTIT Document SD001[5]. The Scheme is managed by the Norwegian Certification Authority for IT Security (SERTIT). As stated on page 2 of this Certification Report, SERTIT is a member of the Arrangement on the Recognition of Common Criteria Certificates in the Field of Information Technology Security (CCRA), and the evaluation was conducted in accordance with the terms of this Arrangement.

The purpose of the evaluation was to provide assurance about the effectiveness of the TOE in meeting its Security Target[1], which prospective consumers are advised to read. To ensure that the Security Target[1] gave an appropriate baseline for a CC evaluation, it was first itself evaluated. The TOE was then evaluated against this

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baseline. Both parts of the evaluation were performed in accordance with CC Part 3[4] and the Common Evaluation Methodology (CEM)[6].

SERTIT monitored the evaluation which was carried out by the Brightsight B.V. Commercial Evaluation Facility (CLEF/EVIT). The evaluation was completed when the EVIT submitted the Evaluation Technical Report (ETR)[7] to SERTIT in 14 August 2012. SERTIT then produced this Certification Report.

4.17 General Points

The evaluation addressed the security functionality claimed in the Security Target[1] with reference to the assumed operating environment specified by the Security Target[1]. The evaluated configuration was that specified in Annex A. Prospective consumers are advised to check that this matches their identified requirements and give due consideration to the recommendations and caveats of this report.

Certification does not guarantee that the IT product is free from security vulnerabilities. This Certification Report and the belonging Certificate only reflect the view of SERTIT at the time of certification. It is furthermore the responsibility of users (both existing and prospective) to check whether any security vulnerabilities have been discovered since the date shown in this report. This Certification Report is not an endorsement of the IT product by SERTIT or any other organization that recognizes or gives effect to this Certification Report, and no warranty of the IT product by SERTIT or any other organization that recognizes or gives effect to this Certification Report is either expressed or implied. ana an ao amin'ny faritr'i Analas amin'ny departe ara-departempetatra amin'ny departempetatika.

5 Evaluation Findings

The evaluators examined the following assurance classes and components taken from CC Part 3. These classes comprise the EAL 2 assurance package augmented with ALC_FLR.2

Assurance class	Assurance components		
Development	ADV_ARC.1	Security architecture description	
	ADV_FSP.2	Security-enforcing functional specification	
	ADV_TDS.1	Basic design	
Guidance documents	AGD_OPE.1	Operational user guidance	
	AGD_PRE.1	Preparative procedures	
Life-cycle support	ALC_CMC.2	Use of a CM system	
	ALC_CMS.2	Parts of the TOE CM coverage	
	ALC_DEL.1	Delivery procedures	
	ALC_FLR.2	Flaw reporting procedures	
Security Target	ASE_CCL.1	Conformance claims	
evaluation	ASE_ECD.1	Extended components definition	
	ASE_INT.1	ST introduction	
	ASE_OBJ.2	Security objectives	
	ASE_REQ.2	Derived security requirements	
	ASE_SPD.1	Security problem definition	
	ASE_TSS.1	TOE summary specification	
Tests	ATE_COV.1	Evidence of coverage	
	ATE_FUN.1	Functional testing	
	ATE_IND.2	Independent testing – sample	
Vulnerability assessment	AVA_VAN.2	Vulnerability analysis	

5.1 Introduction

The evaluation addressed the requirements specified in the Security Target[1]. The results of this work were reported in the ETR[7] under the CC Part 3[4] headings. The following sections note considerations that are of particular relevance to either consumers or those involved with subsequent assurance maintenance and re-evaluation of the TOE.

5.2 Delivery

On receipt of the TOE, the consumer is recommended to check that the evaluated version has been supplied, and to check that the security of the TOE has not been compromised in delivery.

5.3 Installation and Guidance Documentation

Installation of the TOE must be performed completely in accordance with the guidance in the Operational User Guidance documents provided by the developer.

These documents are a collection of all security relevant operations and settings that must be observed to ensure that the TOE operates in a secure manner

5.4 Misuse

There is always a risk of intentional and unintentional misconfigurations that could possibly compromise confidential information. Developers should follow the guidance for the TOE in order to ensure that the TOE operates in a secure manner.

The guidance documents [8] to[13] adequately describe the mode of operation of the TOE, all assumptions about the intended environment and all requirements for external security. Sufficient guidance is provided for the consumer to effectively use the TOE's security functions.

5.5 Vulnerability Analysis

The evaluators assessed all possible vulnerabilities found during evaluation of the classes. This resulted in a list of possible vulnerabilities to be tested.

The evaluators assessed which potential vulnerabilities were already tested by the developer and assessed the results.

Brightsight tested the remaining potential vulnerabilities on the final version of the TOE at the premises of ZTE, Shanghai, China on 19th and 20th July 2012.

5.6 Developer's Tests

The developer test effort is considered already fairly complete. Any major missing features reported by the evaluators such as user management, STP and LACP tests have been added to the developer test set. And the developer integrated tests for similar functionality into bigger test case.

Brightsight performed these tests based on the final version of the TOE at the premises of ZTE, Shanghai, China on 19th and 20th of July 2012.

5.7 Evaluators' Tests

For independent testing, the evaluator has repeated 9 out of the 11 developer's tests and added 12 tests (21 evaluator's ATE_IND.2 tests in total). For each of the TSFI available at least one test is performed.

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Brightsight performed these tests based on the final version of the TOE at the premises of ZTE, Shanghai, China on 19th and 20th of July 2012.

6 Evaluation Outcome

6.1 Certification Result

After due consideration of the ETR[7], produced by the Evaluators, and the conduct of the evaluation, as witnessed by the Certifier, SERTIT has determined that ZTE Access System Series version ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2 meets the Common Criteria Part 3 conformant requirements of Evaluation Assurance Level EAL 2 + ALC_FLR.2 for the specified Common Criteria Part 2 conformant functionality, in the specified environment, when running on platforms specified in Annex A.

6.2 Recommendations

Prospective consumers of ZTE Access System Series should understand the specific scope of the certification by reading this report in conjunction with the Security Target[1]. The TOE should be used in accordance with a number of environmental considerations as specified in the Security Target.

Only the evaluated TOE configuration should be installed. This is specified in Annex A with further relevant information given above under Section 4.3 "TOE Scope" and Section 5 "Evaluation Findings".

The TOE should be used in accordance with the supporting guidance documentation included in the evaluated configuration.

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Annex A: Evaluated Configuration

TOE Identification

There is no special hardware requirement. Since the TOE already includes the hardware components. The configuration of the hardware is listed below:

ТҮРЕ	TOE NAME	VERSION
Hardware	ZXA10 C300	ZXA10 C300 V2.0.0T2
	ZXA10 C300M	ZXA10 C300M V3.0T2
	ZXA10 C350M	ZXA10 C350M V3.0T2

TOE Documentation

The supporting guidance documents evaluated were:

- [a] ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (CLI) Version R1.0
- [b] ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (NetNumen) Version R1.0
- [c] ZXA10 C300(V2.0) Optical Access Convergence Equipment Maintenance Manual Version R1.0
- [d] ZXA10 C300(V2.0) Security Issues Version R1.0
- [e] ZXA10 C300M(V3.0) Multi-service Access Equipment Configuration Manual (CLI) Version R1.0
- [f] ZXA10 C300M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) Version R1.0
- [g] ZXA10 C300M(V3.0) Multi-service Access Equipment Maintenance Manual Version R1.0
- [h] ZXA10 C300M(V3.0) Security Issues Version R1.0
- [i] ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (CLI) Version R1.0
- [j] ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) Version R1.0
- [k] ZXA10 C350M(V3.0) Multi-Service Access Equipment Routine Maintenance Manual Version R1.0
- [I] ZXA10 C350M(V3.0) Security Issues Version R1.0

Further discussion of the supporting guidance material is given in Section 5.3 "Installation and Guidance Documentation".

TOE Configuration

The following configuration was used for testing:

TOE	ITEM	IDENTIFIER	VERSION
C300	Hardware	ZXA10 C300	
V2.0.0T2	Software	ZXA10 C300 ZXIAP ZXROS Vxworks	V2.0.0T2 V2.0 04.08.35 5.5.1
	Guidance	ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (CLI) ZXA10 C300(V2.0) Optical Access Convergence Equipment Configuration Manual (NetNumen) ZXA10 C300(V2.0) Optical Access Convergence Equipment Maintenance Manual ZXA10 C300(V2.0) Security Issues	R1.0
C300M	Hardware	ZXA10 C300M	
V3.0T2	Software	MSG_6000 ZXIAP ZXROS Vxworks	V3.0T2 v1.2 04.08.01 5.5.1
	Guidance	ZXA10 C300M(V3.0) Multi-service Access Equipment Configuration Manual (CLI) ZXA10 C300M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) ZXA10 C300M(V3.0) Multi-service Access Equipment Maintenance Manual ZXA10 C300M(V3.0) Security Issues	R1.0
C350M	Hardware	ZXA10 C350M	
V3.0T2	Software	MSG_6000 ZXIAP ZXROS Vxworks	V3.0T2 v1.2 04.08.01 5.5.1
	Guidance	ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (CLI) ZXA10 C350M(V3.0) Multi-Service Access Equipment Configuration Manual (NetNumen) ZXA10 C350M(V3.0) Multi-Service Access Equipment Routine Maintenance Manual ZXA10 C350M(V3.0) Security Issues	R1.0
Development Evidence	[ST] Access Gateways STV1.0[ADV] Access Gateways (Batch #2)V0.2[FSP] ZXA10 C300 physical functional specificationV1.0[FSP] ZXA10 C300M physical functional specificationV1.0[FSP] ZXA10 C350M physical functional specificationV1.0[FSP] ZXA10 C350M physical functional specificationV1.0[ATE C300] CC Test Specification ZTEV1.1[ATE C300M] CC Test Specification ZTEV1.1[ATE C350M] CC Test Specification ZTEV1.0[ALC] ALC_DEL.1, ALC_CMC.2, ALC_CMS.2, ALC_FLR.2 forAccess System Series		

The IT product identified in this certificate has been evaluated at the Norwegian evaluation facility described on this certificate using Common Methodology for IT Security Evaluation, according to the version number described on this certificate, for conformance to the Common Criteria for IT Security Evaluation according to the version number described on this certificate. This certificate applies only to the specific version and release of the product in its evaluated configuration and in conjunction with the complete Certification report. The evaluation has been conducted in accordance with the provisions of The Norwegian Certification Authority for IT Security (SERTIT) and the conclusions of the evaluation technical report are consistent with the evidence adduced. Certification does not guarantee that the IT product is free from security vulnerabilities. This certificate only reflects the view of SERTIT at the time of certification. It is furthermore the responsibility of users (both existing and prospective) to check whether any security vulnerabilities have been discovered since the date shown of this certificate. This certificate is not an endorsement of the IT product by SERTIT or by any other organization that recognizes or gives effect to this certificate, and no warranty of the IT product by SERTIT or by any other organization that recognizes or gives effect to this certificate, is either expressed or implied.

Certificate

Product Manufacturer: ZTE Corporation Product Name: ZTE Access System Series Type of Product: Telecommunication Access System Version and Release Numbers: ZXA10 C300 V2.0.0T2, C300M V3.0T2, C350M V3.0T2 Assurance Package: EAL 2 augmented with ALC_FLR.2 Evaluation Criteria: Common Criteria version 3.1R3 (ISO/IEC 15408) Name of IT Security Evaluation Facility: Brightsight B.V. Name of Certification Body: SERTIT Certification Report Identifier: SERTIT-043 CR, issue 1.0, 4 March 2013 Certificate Identifier: SERTIT-043 C Date issued: 4 March 2013 Ame It. Rage

Milliagen Kjartan Jæger Kvassnes Certifier

Arne Høye Rage Quality Assurance

Vojeluw. Bergan

Kjell Werner Bergan Head of SERTIT



