



## Integrated Subsystems

*List of integrated subsystems including TERRA 4D versions*

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# 1 Introduction

TERRA 4D supports a variety of subsystems from leading manufacturers for security, safety and dispatching.

This document provides an overview of subsystems supported by the software.

## 2 Integrated Subsystems

### 2.1 VMS

Manufacturer	Typ	Terra 4DD Versionnn
NICE	alpha technology (previously FAST Video Security)	0.9
Honeywell	IP Engine	2.3
	Rapid Eye™ Series	2.3
	Fusion Series	2.3
	Enterprise Series	2.3
	HRXD	2.3
	HRSD	2.3
	MAXPRO® NVR SE	2.3
	HRDP	2.3
	DVM	2.9
Pelco	Pelco DX8100 (via MAXPRO)	2.3
	Pelco Digital Sentry 7.0.24.0 (via MAXPRO)	2.3
IndigoVision	Video Management System Control Center	2.7
Bosch	Video Management System	2.9
Milestone	Xprotect® 2014-2020	2.9
Mirasys	Mirasys VMS 9.2	2.9
Digivod	Digivod VMS, V3.5	2.7
Securiton	IPS VideoManager	2.7
Avigilon	Avigilon Control Center	2.8
Genetec	Security Center V5.9	2.9

## 2.2 Fix Cameras

Manufacturer	Typ	Terra 4DD Versionn
AXIS	All models supporting AXIS VAPIX protocol	2.0
FLIR	All models supporting STANAG 4609 or ONVIF	2.4

More camera devices are supported over ONVIF, see section 3 Integrated Standard Interfaces

## 2.3 PTZ Cameras

Manufacturer/ Protocol	Typ	Pan/Tilt	Zoom	Terra 4DD Versionn
AXIS	All models supporting AXIS VAPIX protocol	✓	✓	2.1
Honeywell	ACUIX KD6	✓	✓	2.3
	HDZ series	✓	✓	2.3
Indigo Vision	BX500 HD	✓	✓	2.3
	BX Series	✓	✓	2.5
D-Link	DCS series	✓	✓	2.6
FLIR	All models supporting STANAG 4609 or ONVIF	✓	✓	2.5

More camera devices are supported over ONVIF, see section 3 Integrated Standard Interfaces

## 2.4 LRAD, Long Range Acoustic Device

Manufacturer	Typ	Terra 4DD Versionn
Genasys	LRAD	3.0

## 2.5 Radar/Sonar

Manufacturer	Typ	Terra 4DD Version
Microsoft	Kinect gaming controller as demo device	2.4
Navtech	WGS 200 series	2.4
	WGS 500 series	2.4
	AGS 800 series	2.4
	AGS 1600 series	2.4
Airside Logix	Ground radar, FOD	2.6
FLIR	Ranger R3	2.6
HGH	Spynel-S Panoramic Detection System	2.8
Echodyne	MESA Radars	3.0
Sonardyne	Sentinel, Intruder detection sonar	2.9

## 2.6 Tracking Devices

See also section 3 Integrated Standard Interfaces

Manufacturer	Typ	Description	Terra 4DD Version
InstaMapper	InstaMapper	GPS tracking of smart phones via web service	0.9
Tersec	ITS	GPS tracking, iPhone/Tetra/HiddenTech	0.9
Vesseltracker	Vesseltracker	AIS tracking web service (ships)	2.1
MarineTraffic	MarineTraffic	AIS tracking web service (ships)	2.1
PlaneTracker	Flightradar24	ADS-B tracking web service (airplanes)	2.1
GNS	GNS-5890	ADS-B antenna (airplanes)	2.4
CityGIS	AZN	GPS tracking of CityGIS mobile clients	2.4
DNA Tracker	IMSI Catcher	Tracking of mobile phones	2.7
ip.Access	Presence	Tracking of mobile phones	2.8

## 2.7 Face Capture and Recognition

Manufacturer	Typ	Terra 4DD VersionnD
ISS	SecurOS Face	2.4
Herta	BioSurveillance, BioCompare	2.7
Saimos	FaceVis	2.8
AnyVision	Face Recognition	2.8
NEC	Neo Face Watch	2.9

## 2.8 Video Analysis

Manufacturer	Typ	Terra 4DD VersionnH
Securiton	IPS, V7.x	2.7
Honeywell	Active Alert, V 2.1	2.1
Mirasys	Object detection	2.6
TechnoAware	VTrack	2.8

## 2.9 ANPR – Automated Number Plate Recognition

Manufacturer	Typ	Terra 4DD Versionn
Beyond Security	CitySync ANPR system via Beyond Security	2.7
FF Group	LPR on camera	2.8
Vaxtor	VaxOCR	2.9
VEER	ZenLPR	3.0

## 2.10 Access Control System

Manufacturer	Typ	Terra 4DD Versionn
Honeywell	Pro-Watch Release 3.8 or later	2.3
Motorola	FX9500, RFID reader	2.5
Hirsch / Identive	Tx Systems	2.6
Avigilon	ACM – Access Control Manager V5	2.9
Genetec	Security Center V5.8	2.9
Honeywell	EBI 600	2.9

## 2.11 Building Management

Manufacturer/ Protocol	Typ	Terra 4DD Versionn
NICE	alpha technology (previously FAST Video Security)	0.9
Honeywell	MAXPRO Pro-Watch	2.3
Lenel	OpenAccess Alliance Program (OAAP)	2.9
Honeywell	EBI 600	2.9

More building management systems are supported over *OPC UA*, see section 3 Integrated Standard Interfaces

## 2.12 VoIP / Audio Communication

Manufacturer	Typ	Terra 4DD Versionn
Commend	Intercomm Server via SIP	2.6
Commend	Commend ICX	2.9

## 2.13 UAV Systems

Manufacturer	Typ	Terra 4DD Versionn
Droneshield	Drone classification via audio signature scanning	2.6
Coptersystems	Control interface for CopterSystems drone devices	2.6
MAVLink	Messaging protocol for communicating with UAVs	2.9

## 2.14 IT infrastructure/Cyber Security

Manufacturer	Typ	Terra 4DD Versionn
Nelysis	Vanguard Network Cyber Management Software (NCM)	2.6
Huawei	eSight, enterprise operation and maintenance	2.9

## 2.15 Other IO Devices

Manufacturer	Typ	Terra 4DD Versionn
Advantech	Advantech HTTP protocol	2.4
Envitech	AQM (Air Quality), AMS (Meteorological)	2.7
BigBelly	Smart Waste Bins	2.7

### 3 Integrated Standard Interfaces

Protocol	Annotation	Terra 4DD Versionnn
ONVIF	All camera devices supporting Profile S; Find devices at: <a href="http://www.onvif.org/FindaProduct/ProfileProducts.aspx">http://www.onvif.org/FindaProduct/ProfileProducts.aspx</a>	2.3
OPC AE	Find list of members of the OPC Foundation at <a href="https://opcfoundation.org/members">https://opcfoundation.org/members</a>	2.6
OPC DA2	Find list of members of the OPC Foundation at <a href="https://opcfoundation.org/members">https://opcfoundation.org/members</a>	2.6
OPC DA3	Find list of members of the OPC Foundation at <a href="https://opcfoundation.org/members">https://opcfoundation.org/members</a>	2.6
OPC UA	Find list of members of the OPC Foundation at <a href="https://opcfoundation.org/members">https://opcfoundation.org/members</a>	2.5
SIP	Communication protocol for signaling and controlling multimedia communication sessions.	2.6
MODBUS	Communication protocol for programmable logic controllers for industrial electronic devices	2.4
ONVIF IO/Events	Support of IO devices (status, trigger) and event processing for “on camera” video analytics	2.8

## 4 Glossary

ACS	Access Control System
ADS-B	Automatic dependent surveillance – broadcast
AIS	Automatic Identification System
ANPR	Automatic Number Plate Recognition
GIS	Geographic Information System
GPS	Global Positioning System
LRAD	Long Range Acoustic Device
OPC	OLE for Process Control
OPC DA	OPC Data Access
OPC UA	OPC Unified Architecture
PTZ	Pan-Tilt-Zoom camera
SIP	Session Initiation Protocol
VMS	Video Management Systems

## 5 Appendix

The appendix contains additional information.

### 5.1 Imprint and Addresses

#### *Imprint*

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