iDirect Evolution Software Matrix Release 4.3.x

ST Engineering

Feature Group	Evolution Feature	Type of Remote														
		900	9350	950mp	X1-KU/C	X5	X7	CX700	X7-EC	X7-ER	iQDT	iQDT+	iQ200	iQLTE	MDM3315	SMB3315
QoS Logic	Remote Service Groups	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Idle & Dormant States enabled for Remote Dynamically Reducing MIR	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	QoS Allocation Fairness	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.6	4.1.3	4.3.0	4.3.0
Global NMS/ABS/Mobile	Mobility	3.4.0	3.4.0	3.4.0		2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1		4.1.6	4.1.2	4.1.3	4.3.0	4.3.0
	Communications On The Pause (COTP)	3.4.0	3.4.0	3.4.0		2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1		4.1.6	4.1.2	4.1.3	4.3.0	4.3.0
	High Speed Comms-On-The-Move (COTM)	3.4.0	3.4.0	3.4.0												
	Ultra High Speed Comms-On-The-Move (UHS-COTM)	4.2.0	4.2.0	4.2.0												
	Inhibit Tx Option for Beam Quality Equals Zero	3.4.0	3.4.0	3.4.0		3.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Global NMS and Roaming Remotes	3.4.0	3.4.0	3.4.0		2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	LNB Band/Pol Control with Tone	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	OpenAMIP	3.4.0	3.4.0	3.4.0		2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.6	4.1.6		4.1.3	4.3.0	4.3.0
	Remote QoS Profile Portability	3.4.0	3.4.0	3.4.0		2.1.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.6	4.1.6	4.1.2	4.1.3	4.3.0	4.3.0
	Disable ABS Switching to Zero-Quality Beams	3.4.0	3.4.0	3.4.0		2.0.1	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.6	4.1.6	4.1.2	4.1.3	4.3.0	4.3.0
	GUI Support for HS-COTM	4.2.0	4.2.0	4.2.0												
VLAN, Multicast, Routing	Border Gateway Protocol (BGP)						4.1.0	4.1.0	4.1.0	4.1.0	4.1.6	4.1.6	4.1.6	4.1.6	4.3.0	4.3.0
	LAN Port Monitoring (LPM)					3.2.3	3.2.3	3.2.3	3.3.5	3.3.2.1	4.1.4	4.1.4	4.1.4	4.1.4	4.3.0	4.3.0
	Virtual Router Redundancy Protocol (VRRP)					3.2.3	3.2.3	3.2.3	3.3.5	3.3.2.1	4.1.4	4.1.4	4.1.4	4.1.4	4.3.0	4.3.0
	Multicast Address Range Extension	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Layer 2 over Satellite (L2oS)						3.3.3.1	3.3.3.1	3.3.5	3.3.3.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
Downstream Carrier Related Features	Linear Predistortion Feature	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	ULC-T/DLC-T support	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	32APSK support in DVB-S2	3.5.0	3.5.0	3.5.0			3.5.0	3.5.0	3.5.0	3.5.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	DVB-S2/ACM Downstream	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Alternate Downstream Configuration	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Reduced DVB-S2 Downstream Roll-Off Factor	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	DVB-S2X Downstream										4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
Upstream Carrier Related Features	DP-TDMA 7.5 Msps ATDMA waveform support	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.2.0	3.2.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Inclined orbit support	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.2.0	3.2.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	ULC-R/DLC-R support	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	3.4.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	15 Msps ATDMA support	3.5.0	3.5.0	3.5.0									4.1.2	4.1.3	4.3.0	4.3.0
	ULC-R MCD Wide Channel TDMA mode	3.5.0	3.5.0	3.5.0									4.1.2	4.1.3	4.3.0	4.3.0
	29 Msps ATDMA	4.1.0	4.1.0	4.1.0											4.3.0	4.3.0
	SCPC Support only with legacy line cards					3.0.0										
	Transec mode Superburst and SS ACQ burst obfuscation	4.2.0	4.2.0	4.2.0												
	5% Roll-Off factor and High Efficiency MODCODs HEM on upstream										4.3.0	4.3.0	4.3.0	4.3.0	4.3.0	4.3.0
	Upstream TDMA with 2D16S Code FEC	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Adaptive TDMA (A-TDMA)	3.4.0	3.4.0	3.4.0	3.2.0	3.2.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	170B Adaptive Spread Spectrum Returns and Spread Acquisition Burst	4.2.0	4.2.0	4.2.0							4.1.6	4.1.6	4.1.6	4.1.6		
	Fan In (Fan In Fan Out)	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	16QAM Carrier										4.1.3	4.1.3	4.1.3	4.1.3	4.3.0	4.3.0
	100B legacy spread spectrum on Upstream ATDMA	3.4.0	3.4.0	3.4.0	3.1.0	3.2.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.6	4.1.6	4.1.6	4.1.6		
Performance Features	Multicast Fast Path				3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Superburst Acquisition	3.4.0	3.4.0	3.4.0	3.1.0	3.2.0	3.2.0	3.2.0	3.3.5		4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Superburst and Spread Acquisition for TRANSEC	4.2.0	4.2.0	4.2.0												
Security	Interference Mitigation (CSIR)	4.2.2	4.2.2	4.2.2												
	Information Assurance Package (SHIELD)	4.2.2	4.2.2	4.2.2												
	Transmission Security (TRANSEC) for DVB-S2 Networks	4.2.0	4.2.0	4.2.0												
	Transmission Security (TRANSEC) - One-way	4.2.0	4.2.0	4.2.0												
	Enhanced TRANSEC Usability	4.2.0	4.2.0	4.2.0												
	Multi-Channel Demodulation (MCD) TRANSEC with m=4, 8	4.2.0	4.2.0	4.2.0												
	Multi-Channel Demodulation (MCD) TRANSEC with m=16 (DLC-R only)	4.2.0	4.2.0	4.2.0												
	FIPS 140-2 Level 2 Compliance (eMxDx Line Cards and 8-Series Remotes)	4.2.0	4.2.0	4.2.0												
	FIPS 140-2 Level 3 Compliance (DLC Line Cards and 9-Series Remotes)	4.2.0	4.2.0	4.2.0												
	Full ACC and DCC key support (DVB-S2 networks only)	3.4.0	3.4.0	3.4.0												
	Global Key Distribution (GKD) (DVB-S2 networks only)	3.4.0	3.4.0	3.4.0		2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Initial load with current and next ACC Keys for 9-Series/9-Series Airborne	3.4.0	3.4.0	3.4.0												
	Enhance Remote Locking				3.3.0	3.5.0	3.5.0	3.5.0	3.5.0	3.5.0	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Link Encryption	3.4.0	3.4.0	3.4.0	3.3.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.3	4.1.3	4.1.3	4.1.3	4.3.0	4.3.0
	Multicast Fast Path Encryption	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.1.3	4.1.3	4.1.3	4.1.3	4.3.0	4.3.0
	Security Enhancements & Vulnerabilities Remediation	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.1.5	4.3.0	4.3.0
Mesh Topology	Mesh Topology Overlay using Mesh Receiver and X7, 950mp, 9350, and iQ Series remote	4.1.5	4.1.5	4.1.5			4.1.0	4.1.0	4.1.0	4.1.0	4.1.5	4.1.5	4.1.5	4.1.5		
	Hop-and-a-Half Mode	4.1.5	4.1.5	4.1.5			4.1.0	4.1.0	4.1.0	4.1.0	4.1.5	4.1.5	4.1.5	4.1.5		
Other Features	TCP Acceleration (IPv4)	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Remote Receive Only & Receive Only Multicast Modes	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Multicast Filtering for Dual-Receive Scenarios	4.2.0 [1]	4.2.0 [1]	4.2.0 [1]			3.2.0	3.2.0	3.3.5	3.3.2.1					4.3.0	4.3.0
	Remote Sleep Mode	3.4.0	3.4.0	3.4.0	3.1.0	2.0.0	3.2.0	3.2.0	3.3.5	3.3.2.1	4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Transmit Key Line	3.4.0	3.4.0	3.4.0												
	Multi-Protocol Encapsulation (MPE) for 9-Series 2nd Demod (GBS mode)	3.4.0	3.4.0	3.4.0												
	Web Services Toolkit/iToolkit															
	iVantage API for Configuration															
	NMS DB Replication With MySQL															
	Web User Interface	3.4.1	3.4.1	3.4.1							4.0.0	4.0.0	4.1.2	4.1.3	4.3.0	4.3.0
	Web iSite for X1 and X7				3.1.0		3.2.0	3.2.0	3.3.5	3.3.2.1						

Notes:

[1] 9-series Evo commercial release does not support dual receivers.