

TOC

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25.5.52.21 - May 2025, Feature

Release category: **Recommended**

New features

1. Support for **Enhanced Location Services** has been added for real-time geolocation and signal quality insights.

Benefits	Device Requirements	New in Digi Remote Manager	Configuration settings
Near real-time (as fast as every 10s) location updates.	Only supported on devices with GNSS/GPS capabilities.	Map overlays for signal quality, carrier, and connection status.	Enable via DigiRM: Settings > Monitoring > Enhanced Location Services.
Historical cellular performance data (e.g., signal strength by location).		Filters for carrier/provider/signal strength.	Adjustable reporting interval: 10s to 1 hour.
Valuable for mobile assets: buses, trains, field devices.		Timeline-based playback of device movement and connectivity history.	
Troubleshooting dead zones and coverage issues becomes easier.		Split-view support for devices with dual modems.	

2. Support for **5G Slicing** for T-Mobile phase 1 has been added. 5G Slicing allows traffic to be routed through multiple dedicated logical networks—called “slices”—on a single 5G connection. These slices can be tailored for different latency, bandwidth, and priority needs.

Benefits	Supported devices	Configuration overview	UI enhancements
Eliminates the need for multiple modems/SIMs.	5G SA-capable routers only.	1. Access network settings and set number of modem interfaces.	Digi Remote Manager DRM now displays multiple network slices per SIM.
Simplifies traffic segmentation.		2. Select slice type (e.g., eMBB, URLLC, Massive IoT).	Up to 8 slices supported per SIM (based on carrier provisioning).
Enables carrier-side traffic prioritization.		3. Enter Slice Differentiator (provided by the carrier).	
Supports use cases like robotics, edge computing, and public safety.		Each slice becomes a routable WAN interface in Digi Remote Manager (DRM).	

Enhancements

1. Added settings to serial **Autoconnect** to allow for a interactive login session.
2. The configuration for the Digi Remote Manager query state support has been split out from the metrics configuration and is now under **cloud > drm > telemetry**.
3. The Digi Remote Manager query state support has been updated to reduce the CPU usage.
4. The health metrics support has been updated to stop taking samples when the health metrics are disabled.
5. The query state support has been updated to store the reboot reason on boot up. Previously, the reboot reason was being read from the event log and would be lost after the device has been up for a while resulting in the query state not reporting the reboot reason.
6. The query_state RCI command in Digi Remote Manager has been updated to support a “live” mode option to trigger the device to refresh its query_state details immediately and report the new values in the RCI response.
7. Add CLI-formatted configuration settings to the support report.
8. Support for the AView cloud management system has been removed.

Bug fixes

1. An issue with the Wireguard support where the public and private keys were not being generated when configured via Digi Remote Manager has been resolved. [DAL-11174].

2. The location forwarder support has been updated to resolve an issue where updates could be lost or duplicated when the interval was set to 1 second. [DAL-11175].
3. The following issues with Query State has been resolved:
 - IPsec query state failing is an IPsec tunnel was deleted [DAL-11442].
 - The cellular TX and RX bytes were incorrectly calculated [DAL-11444].
4. An issue where a Python device request registration could fail if there is no Digi Remote Manager connection has been resolved. [DAL-11450].
5. An issue where initial cellular connectivity was delayed due to an un-necessary carrier firmware check has been resolved. [DAL-11356].
6. An issue where the logs for the SNMP service could fill up the system log directory has been resolved [DAL-11431]
7. An issue where cellular data statistics reported to Digi Remote Manager could be lost for the past hour when a reboot occurs has been resolved. [DAL-10524].
8. An issue where the system would log an error starting syslog due to a missing date requirement has been resolved.
9. An issue where IPsec tunnels may not fail back to the primary Internet connection after an outage has been resolved. [DAL-11065].
10. An issue where a Softbank SIM inside an EX50 could not connect to the cellular network in Japan has been resolved [DAL-10697].

DAL OS firmware update guidelines

Digi recommends that users of DAL OS devices update firmware in Digi Remote Manager.



TIP If you are updating many routers, see [Best practice | Update the firmware on multiple routers using a template](#).

It is also recommended that you review the following:

- Release information
- [What's new](#) and [release notes](#) for the current firmware version running on your devices, as well as any newer ones as this information may affect your update plan.

Known issues

- **TX54 product models**

The Serial status and statistics for the TX54 are incorrect on the Web UI and CLI (DAL-5763).

- **Bridging traffic from devices connected on an Ethernet port or Wi-Fi AP**

Due to the changes in the firewall, it is currently not possible to bridge traffic from devices connected on an Ethernet port or Wi-Fi AP in a bridged interface to a remote IP device via a gateway connected to an Ethernet port in the same bridged interface [DAL-9799].

- **IPsec using Default Router as the Local Endpoint**

There is an issue with IPsec where the tunnel will not come up when the default route is used as the Local Endpoint and the tunnel is not acting as the initiator. Specifying the interface type for the local endpoint should resolve the issue. [DAL-11361].

- **SSH / SCP login slow when FIPS mode is enabled**

Logging into SSH or SCP when FIPS mode is enabled can take more than 20 seconds. [DAL-12606].

Primary Responder mode considerations

DAL OS 23.9 and later supports a **PR¹** mode that can be enabled on any device. When enabled, the device acts as a Primary Responder PR device with a security-hardened, feature-restricted firmware targeted to comply with AT&T FirstNet[®] and Verizon ResponseVerify[™] security requirements.

Features not available	Features available but disabled by default	Features enabled when PR mode is enabled
Telnet	SSH*	FIPS mode
Raw TCP listeners for serial ports	Wi-Fi pre-configured access points	
Wi-Fi WPA1 encryption	Internal serial console port	
Backup configuration file restore	USB ports	

*For DAL OS 25.8 feature release and newer, Primary Responder mode now requires key-based SSH authorization.

Additional considerations

- Users are prompted to enable two-factor authentication.
- A notification will appear in both the Web UI and CLI if the DAL device has Primary Responder mode enabled, but there are local users who do not have two-factor authentication enabled.

¹Primary responder

- The system `custom-default-config` CLI command available in release 24.12 cannot be run in Primary Responder mode.

Devices that use DAL OS firmware

Changes to DAL OS firmware for supported Cellular business unit devices are documented in this documentation portal and in the corresponding device user guides:

Console server	Enterprise	Industrial	IoT gateway and cellular router	Transportation
Connect IT	EX12	IX10	IX15	TX40
Mini	EX15	IX20		TX54
Connect IT 4	EX50	IX25		TX64
		IX30		TX64 RAIL
		IX40		


Step updates

If your devices are running a firmware version **earlier than 24.6.17.54** and you want to update them to version **24.9.79.151** or newer:

1. Do a step update to version **24.6.17.69**.
2. Proceed with updating to newer versions.

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Glossary

#

2FA

Two Factor Authentication

A

AI

Artificial Intelligence

API

Application Programming Interface

AT

Attention

C

CA

Carrier Aggregation

CLI

Command Line Interface

CMP

Connectivity Management Portal

CSV

Comma Separated Values

CTS

Clear to Send

D

DAL OS

Digi Accelerated Linux Operating System

DANI

Digi Artificial Network Intelligence

DCD

Data Carrier Detect

DL

Download

DRM

Digi Remote Manager

DSR

Data Set Ready

DSSS

Dual SIM Single Standby

E

eID

Embedded Identity Document

eIM

eSIM IoT Remote Manager

eMBB

Enhanced Mobile Broadband

ERC/CIP

Ethereum Request for Comments/Cardano Improvement Proposal

eSIM

Embedded Subscriber Identity Module

eUICC

Embedded Universal Integrated Circuit Card

EX

Enterprise

F

FOTA

Firmware Over-the-Air

G

GPS

Global Positioning System

GSMA

Global System for Mobile Communications Association

H

HTTPS

Hypertext Transfer Protocol Secure

I

IMSI

International Mobile Subscriber Identity

IP

Internet Protocol

IPA

IoT Profile Assistant

IX

Industrial

J

JSON

JavaScript Object Notation

L

LAN

Local Area Network

LPA

Local Profile Assistant

LTS

Long Term Support

M

MBIM

Mobile Broadband Interface Model

MCP

Model Context Protocol

mDNS

Multicast Domain Name System

MIoT

Massive Internet of Things

MNO

Mobile Network Operator

MSP

Managed Service Provider

MVNO

Mobile Virtual Network Operator

N

NMEA

National Marine Electronics Association

NSA

Non-Standalone

O

OTA

Over the Air

P

PLC

Programmable Logic Controller

PLMN ID

Public Land Mobile Network Identifier

PR

Primary responder

Q

QoS

Quality of Service

R

RSP

Remote SIM Provisioning

RTU

Remote Terminal Unit

S

SA

Standalone

SGP

Standardized Global Platform (for Secure Remote SIM Provisioning)

SIM

Subscriber Identity Module

SPN

Service Provider Name

SSH

Secure Shell or Secure Socket Shell

SSO

Single Sign On

T

TAIP

Trimble ASCII Interface Protocol

TCP

Transmission Control Protocol

TX

Transportation

U

UI

User Interface

UL

Upload

URL

Uniform Resource Locator

URLLC

Ultra-Reliable Low Latency Communication

V

VLAN

Virtual Local Area Network

VR

Virtual Reality

W

WAN

Wide Area Network

WLAN

Wide Local Area Network

WWAN

Wireless Wide Area Network