



# SkyEdge IV Release News!

## Releases 4.0–4.1

Discover the latest enhancements to Gilat's SkyEdge IV platform! With every release, we drive satellite communication technology forward, bringing innovative features that boost performance, elevate user experience, and support businesses and communities worldwide.

This update introduces expanded SkyEdge IV capabilities to broaden application support and unlock new solutions for NGSO and GEO, helping ensure your network delivers reliable, seamless connectivity.

**All the capabilities below are available in the SkyEdge IV 4.1**

### Enhanced MF-TDMA Return Access

- Complements the existing **ElastiX-SCPC** access method.
- TDMA provides fine time-slot granularity for low data-rate and transactional traffic, while **Elastix SCPC** is optimized for high-data-rate terminals.
- Both access methods **operate over the same shared capacity**, are available for **all modem types**, and terminals may **seamlessly transition** between allocation methods.

### Enhanced Transmission Security: TRANSEC Support

- Rel 4.0 Introduces **TRANSEC** for **Aquarius PRO** modems, targeting sensitive users (e.g., government, defense).
- Encrypts all traffic between the SkyEdge IV HUB and remote modems, including **user data** and **M&C traffic**.
- Encryption applied on both **forward** (IPM → modem) and **return** (modem → MCR) paths.
- Includes advanced mechanisms to **obfuscate network operations** and mitigate threats.

### Modem Location Obfuscation

- Masks the CPE's true location by reporting a **false, dynamically changing location**.
- Reported location is randomly generated within a **configurable radius** around the actual location.
- Supported in **OSS-managed NMS mode**.

### Platform Enhancements: NBI, Monitoring & Security

- Release 4.0 includes **multiple enhancements** across key system domains:
  - **Northbound Interfaces (NBI)**: Improved integration capabilities and extended data exposure for external systems.
  - **Monitoring**: Expanded visibility and diagnostics for better network management and faster troubleshooting.
  - **Enhanced management and infrastructure capabilities** for improved synchronization, scalability, and system reliability.
  - **Security**: Strengthened mechanisms across various layers to enhance protection and resilience.
- These improvements collectively support greater **operational efficiency, scalability, and system robustness**.

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If you have any questions or suggestions for future releases, please reach out at: [yaronk@gilat.com](mailto:yaronk@gilat.com)

Regards,

**Yaron Katriel, Director of VSAT Products**