TDM to IP Solution

Features

→ **Fully User Configurable**

→ **FTI/FENS Compatible**

→ **CMHP Certified**

→ **Each module features 4 rear serial ports**

→ **1U rack mountable**

→ **Redundant configurations available**

The RICI Gateway was specifically designed to address the needs associated with the elimination of leased TDM lines, which traditionally are used for transporting serial data. As such, the product comes equipped with a suite of built-in user configurable options that allow the users to configure the unit for their required needs depending on where they are in the migration path relative to the elimination of leased TDM lines, or, as commonly referred to Sun Setting on TDM.

The next generation RICI Gateway (Model 6000) is a form, fit and function replacement for the RICI 5000 Gateway, and uses readily available components, ensuring the RICI is supportable for the foreseeable future. The updated RICI features the latest technology and increased throughput.

Interfaces:

The RICI Gateway is intended to interface to a number of different devices such as NAV Aid Devices (VOR, RVR, ALS…), Weather Sensors (ASOS/AWOS), and Radar Flight Data Equipment. The RICI Gateway supports up to 4 serial ports.

Additionally, the RICI Gateway has been designed to provide a CMHP RMLS connection that provides monitoring of the RICI Gateway hardware, and individual channel configuration and status.

Configurations:

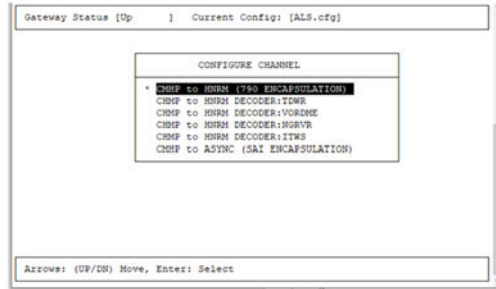The RICI Gateway offers the following user configurable options for converting:

SAI (Async) ⟷ **CMHP, SWIM, ActiveMQ**

790 (HDLC) ⟷ **CMHP, SWIM, ActiveMQ**

All of the options listed can also be configured to be transported over the FAA FTI network. By offering the above flexible configuration, as well as both serial and IP connectivity, the RICI Gateway allows the user to switch over gradually or immediately depending on where they are in the migration phase.

Software:

The software running on the RICI Gateway is a SureLine® Core application that provides user access for operation control and maintenance. Access to the unit is provided by a Web UI (web browser's GUI), a console port or network connection to STUI (Sunhillo Terminal User Interface), and SNMP. The CMHP Gatelink is a text-based curses application used to configure and control the RICI Gateway network and serial port connections.

RICI Gateway Configuration


```
Gateway Status [Up    ]   Current Config: [ALS.cfg]



                     CONFIGURE CHANNEL

          • CMHP to HNRM (790 ENCAPSULATION)
            CMHP to HNRM DECODER:TDWR
            CMHP to HNRM DECODER:VORDME
            CMHP to HNRM DECODER:NGRVR
            CMHP to HNRM DECODER:ITWS
            CMHP to ASYNC (SAI ENCAPSULATION)



  Arrows: (UP/DN) Move, Enter: Select
```

Part Numbers

Part Number:	Description:
010-18-GTW-S01	RICI 6000 Gateway, 4 Port Version
010-U-RMS	Rack Mounting Sleeve Kit
33070025	Null Modem Adapter, DB25 F/F

Technical Specifications

Serial Port Controls
- RS-232 (V.28), RS-422, X.21 (V.1 1), V35 (V.35 & V.28), EIA-530A (V.10 & V.1 1), RS-449/V.36 (V.10 & V.1 1), RS-485

Ethernet
- 10BASE-T, 100BASE-T, 1000BASE-T, IEEE-802.3

Protocols/Decoders
- CMHP, SAI (Async), 790 (HDLC), ActiveMQ, SWIM (future capability), ASWONGWY , ASYNC BRIDGE, HNRM Bridge. **Additionally**, the following 790 to SAI decoders are supported: TDWR, VORDME, RVR NEXTGEN, ITWS, ALS, MKRMSC, MKLOC, MKGS, MKIM, ALSF-2/SSALR, NON FED AWOS

Message Proxys
- DME (Selex), BD40 (Modbus ASCII), UXTM (Modbus TCP), UXTM (Modbus RS485), NS710 (Modbus TCP)

Clock Sources
- DCE, DTE, Split Clock (individual clock receive and transmit on each port)

Power
- Power usage: 12W Max per unit
- 100-240 VAC, 2.0A Max, 50-60Hz

Dimensions
- Height: 1.61in / 41mm (Standard 1U)
- Width: 7.31in / 185.68mm
- Depth: 9.17in / 233mm

MTBF
- 750,000 Hours at 25° C per Telcordia SR-332 (Issue 3)

Environmental (Tested to MIL-STD-810G)
- Storage Temperature: -50°C to +60°C
- Operating Temperature: 0°C to +50°C
- Operating Relative Humidity Range: 10-95%, noncondensing
- Operating Altitude: -300 ft to 10,000 ft

Certifications and Compliance
- CE Mark
- RoHS2 Directive 2011/65/EU as amended by (EU) 2015/863
- REACH
- FCC Part 15, Class B
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031
- FAA-G-2100H: Power

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Sunhillo is an ISO 9001:2015 and ISO 27001:2013 certified company

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