TSW212 MRP

The information in this page is updated in accordance with firmware version .

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Contents

Summary

Media Redundancy Protocol (MRP) is a standards-based protocol used in Ring topologies to avoid single points of failure by providing a recovery time of 10ms or less. In a ring network, each Ethernet switch is connected to a minimum of two other switches to form a ring. MRP is used in industrial Ethernet networks and other critical applications to provide network redundancy and high availability. Media Redundancy Protocol is an important tool for ensuring the reliability and availability of network communication in industrial and critical infrastructure settings, where network downtime can have serious consequences. It helps to create fault-tolerant network architectures that can withstand link and device failures, ensuring continuous operation of industrial processes and control systems.

MRP Configuration

Field	Value	Description
Enabled	off | on; default: **off**	Enable/disable MRP service
Ring role	Client | Manager; default: **Client**	Device`s specific role within the MRP ring network, determining its position and responsibilities for maintaining the ring topology.
Primary ring port	ETH & SFP ports; default: **Port1**	The main port used for connecting devices to the ring network.
Secondary ring port	ETH & SFP ports; default: **Port2**	An additional port used for connecting more devices to the MRP ring network, expanding its capacity and reach.
Ring recovery time	200 | 500; default: **500**	The duration it takes for the ring network to restore connectivity and recover from a failure or interruption.