# Octo IP RDS Server and Router

## The professional way to manage you RDS Network

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- Centralization of all RDS data streams
- Full multiplexing and routing from any input to different outputs
- Routing the input traffic via UECP, GPI´s Microsoft Message Queues or IP addresses to the outputs
- Redundant GPI/O hardware support
- Transmit station support with spare encoders for failsafe operation
- Log function – confirmation and monitoring of all input and output traffic
- optional available with RDS Encoder Check:



- Automated reinitialization of encoders in case of problems
- Network alarm control in case of failures (SNMP)
- Heart beat – alive function for encoder control

# OCTO, RDS Data Multiplexing Solution for RDS Networks

## Reliable and efficient, unique quality control and more

OCTO IP is a versatile router allowing multiple different kinds of inputs to be routed to your network of RDS encoders over TCP/IP.
It provides a convenient way to have your complete network situation under control at a glance. The router is also targeted to run in failsafe environments as a service, fitting in many reliable infrastructures demanded by broadcasters.

- Runs also on the latest Microsoft operating systems like Windows 2003 Server or Windows Vista

- Centralization of inputs and outputs of the RDS data streams

- Support of multiple protocols like standard UECP 6.01, handling of GPI/Os and different kinds of Microsoft Message Queues

- Redundant GPI/O hardware support

- Transmit station support with spare encoders for failsafe operation

- Allows easy routing from inputs to outputs by defining human readable names for sets of encoders

- Comprehensive logging for all type of protocols Special treatment of Traffic Announcements and Emergency Warnings over PTY31

- Optional available with RDS Encoder Check:

    - Alive Check of the complete network

    - Unattended self healing possible in case of difficulties

    - SNMP alarm support for fast signaling of network problems

## Input

- OCTO is designed to read several data formats like UECP and XML
- Input data can be transmitted via TCP/IP or via GPI (General Purpose Interface)

## Output

- Setting TA driven GPO´s
- Encoder updates carried out remotely
- The output to the entire Encoder Network can be either UECP or TEC or both at the same time. The quantity of the data stream output is time controlled to harmonize the on air data to a constant data flow
- The data output can be routed to devices with serial or TCP/IP connections

## Addressing

- Data access and totally control the whole network from one central location
- Able to address individual Encoder or Encoder groups

## Routing

- Dynamic routing of the input data via UECP-Addresses or TCP/IP addresses
- Full control of the data through various filter rules and flexible alarm settings
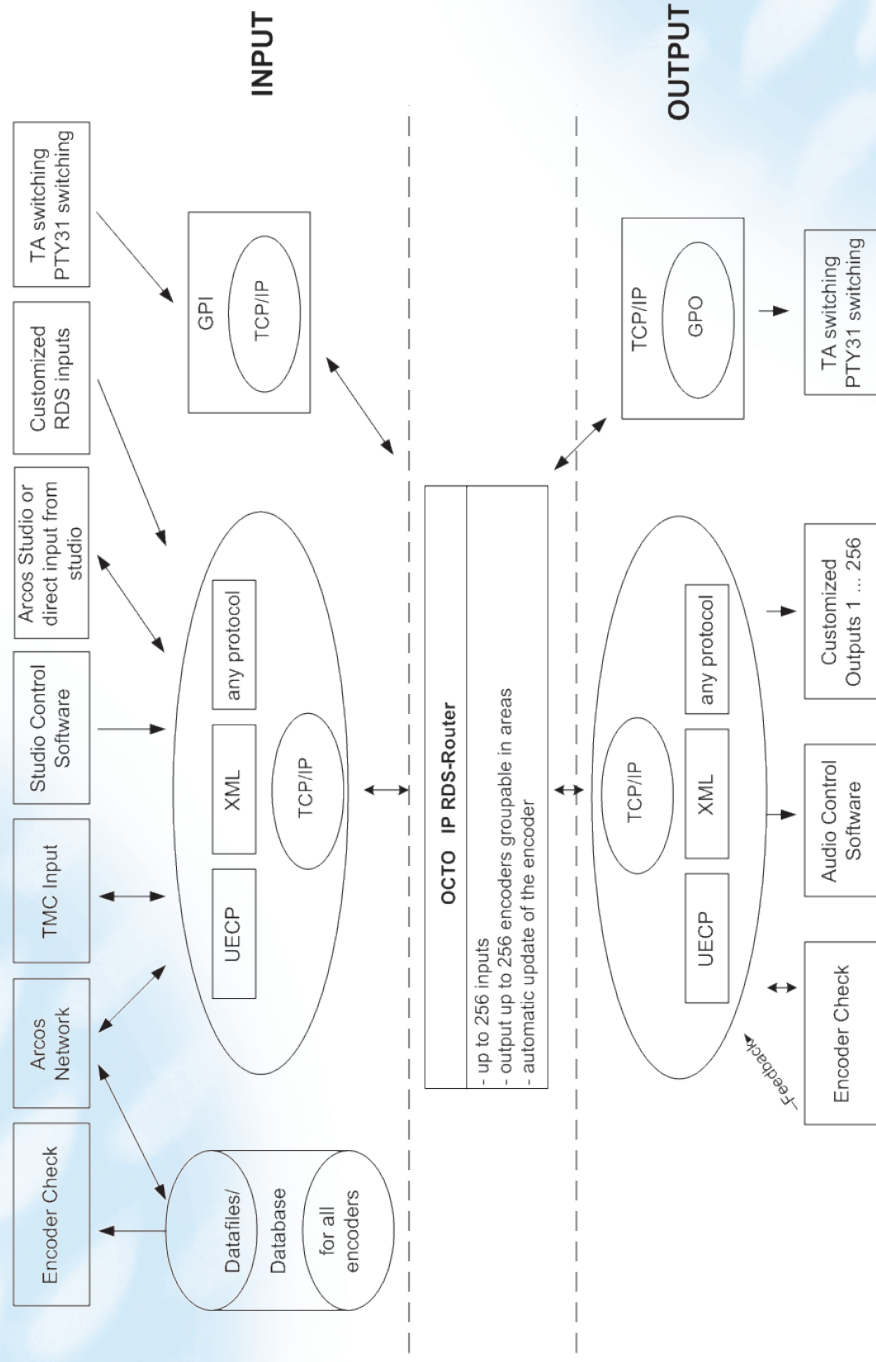
## Alerts

- Forwarding encoder failure alerts automatically to the central location and the service technician
- Timeout for incoming data, errors of incoming data, too many frames in outgoing queue, etc.
- MEC filter & pass for exact control of incoming data
- Advanced statistical & bookkeeping facilities
- Time (UTC) insertion via UECP

## Log files

- The software can be adjusted by options and filters in many ways; by various log files the system can be controlled and managed easily.
- Detailed log files for incoming and outgoing data
- Statistic data (Counting of all RDS-Groups)

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# Structure of the OCTO IP RDS Server and Router

**INPUT**

Encoder Check

Arcos Network

TMC Input

Studio Control Software

Arcos Studio or direct input from studio

Customized RDS inputs

TA switching PTY31 switching

Datafiles/ Database for all encoders

UECP | XML | any protocol
TCP/IP

GPI
TCP/IP

**OCTO IP RDS-Router**

- up to 256 inputs
- output up to 256 encoders groupable in areas
- automatic update of the encoder

**OUTPUT**

UECP | XML | any protocol
TCP/IP

GPO
TCP/IP

Encoder Check

Feedback

Audio Control Software

Customized Outputs 1 … 256

TA switching PTY31 switching