

# Guavus Pipeline 5: Pump

*Guavus Pipeline Pump collects IP Detail Record (IPDR) data with unrivaled performance and reliability. Pipeline Pump is a high availability software component, residing at the edge of the DOCSIS access network to perform real-time IPDR collection, mediation, and routing.*

## Fastest universal DOCSIS IPDR collection in the market

As a comprehensive IPDR mediation platform, Pipeline Pump provides a single unified collection layer for all DOCSIS CMTS vendors and protocol versions. The Pump supports emerging DOCSIS networks such as CCAP, DPoE and DOCSIS 3.1, as well as DOCSIS 1.1, 2.0, DOCSIS 3.0 IPDR Service Definitions, IPDR/SP and Cisco’s SAMIS protocol. Operators are able to perform critical usage-based billing and usage metering applications – regardless of the data source.

Pipeline Pump performs low-level remediation of inbound DOCSIS IPDR streams to improve data quality while transforming IPDR data from vendor-specific formats to a mediated form for all B/OSS applications to consume.

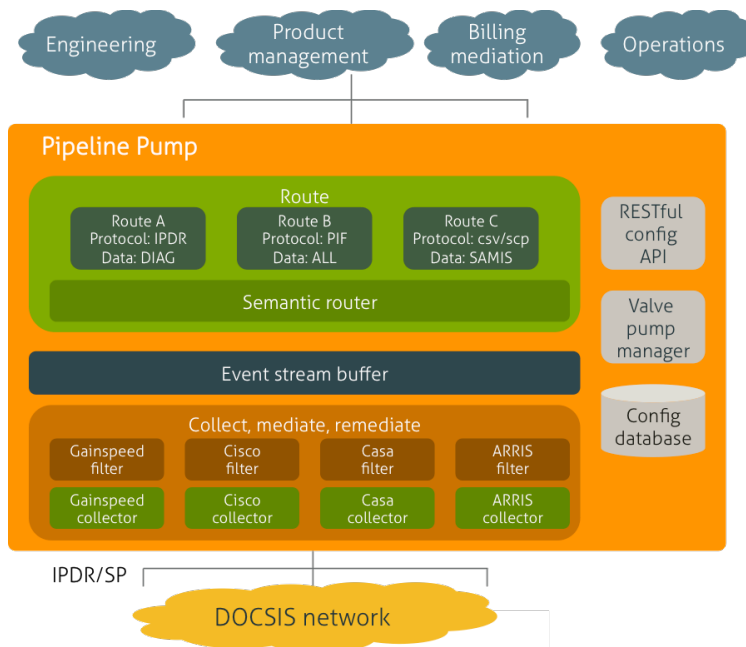


Figure 1. Pipeline Pump collects and processes IPDR streams for use by B/OSS and billing applications

### Highlights

- The fastest universal DOCSIS IPDR collection and stream processing technology
- Supports emerging DOCSIS technology, including CCAPs, DPoE systems and DOCSIS 3.1
- Supports next-gen data models such as Service Flow QoS, IP Multicast and MEF
- Replaces SNMP with the efficient, reliable and scalable IPDR/SP protocol
- Intelligently distributes IPDR data streams to multiple B/OSS applications for concurrent use
- Unrivaled performance and scalability results in as much as a 10:1 reduction in hardware costs, data center rack space and power consumption
- Robust high availability architecture protects essential data for billing and usage metering applications

## Leverage IPDR data across your entire enterprise

IPDR Service Definitions are defined for a wide variety of critical DOCSIS data sets. Pipeline Pump allows operators to leave unpredictable, legacy SNMP loads in the past by upgrading to the efficient, scalable and highly-available IPDR/SP protocol. Then, Pipeline’s Semantic Routing feature enables operators to intelligently distribute IPDR *data streams to numerous* B/OSS and billing applications concurrently using a variety of network protocols and flexible data formats.

*“Pipeline Pump’s performance exceeded the advertised product benchmarks. In a network of our size, the Pump’s scalability dramatically reduces the hardware footprint of our IPDR collection deployment.”*

Systems Engineer,  
Leading Tier-1 MSO

## Unrivaled performance and scalability

Pipeline Pump’s proven best-in-class performance is unrivaled by any other IPDR stream collection and processing technology in the marketplace today. Designed from the ground-up to address the unique needs of Cable’s scale and data network architecture, the Pump fits perfectly into the MSO’s OSS/BSS. Highly optimized software enables operators to collect IPDR streams representing millions of CM devices in a small hardware footprint, resulting in as much as a 10:1 reduction in hardware costs, data center rack space and power consumption.

## Pipeline’s role within Cable’s OSS/BSS

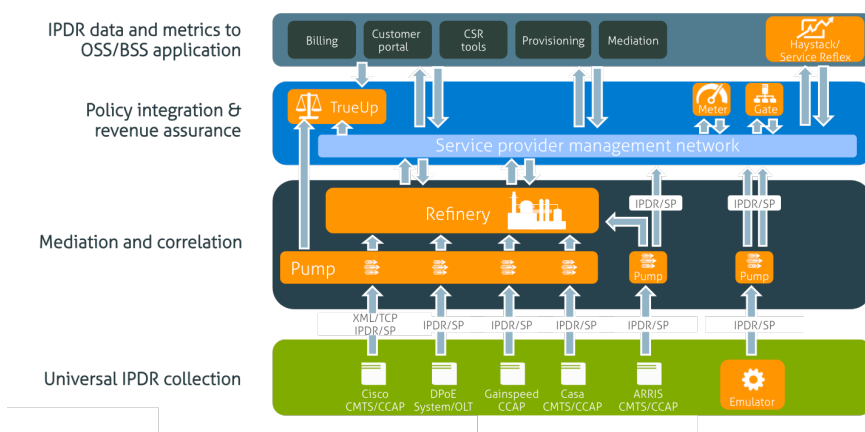


Figure 2. Pipeline’s modular architecture allows you to deploy only what you need

## Guavus Pipeline products

- Pipeline Pump
- Pipeline Refinery
- Pipeline TrueUp
- Pipeline Meter & Gate
- Pipeline Emulator

## Supported equipment by vendor

- Alcatel/Lucent
- ARRIS
- Casa Systems
- Cisco Systems
- Commscope
- Gainspeed
- Oliver Solutions
- Sumitomo

## Pipeline Pump minimum system requirements

- Operating system – Redhat EL7.0/CentOS 7.0 or later (x86\_64)
- Hardware – 64-bit quad-core 1.6GHz
- Disk space – 300GB
- Memory – 1GB per CPU core

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