



C4c™ CMTS

System Release 7.1



Features

- Based on field-proven DOCSIS 3.0 C4 CMTS technology
- Up to 160 Mbps subscriber downstream speed
- Independent downstream and upstream channel modules
- Advanced services capabilities
- Compact, high-density design for smaller headends
- Enhanced routing and networking technology
- Redundancy features and hot swappable modules

The ARRIS C4c™ CMTS Release 7.1 is a compact DOCSIS® 3.0 CMTS based on the proven hardware and software of the larger C4® CMTS solution. It allows an operator to cost-effectively deploy DOCSIS, PacketCable™, DSG/ADSG, and PacketCable Multimedia (PCMM) services in small-to-medium size headends where space and power are often limited. The ARRIS C4c CMTS supports DOCSIS 1.1/2.0/3.0 and PacketCable features, providing operators with a large array of Quality of Service capabilities to deploy revenue-generating services. C4c Release 7.1 brings a host of value-added features, such as DOCSIS downstream channel bonding, OSPF in five VRFs, 802.1Q VLAN tagging, IP Detail Records (IPDR/SP), SII Lawful Intercept, independent scaling of upstream and downstream channels, and scaling to 10,000 subscriber devices.

The ARRIS C4c CMTS is a 7 rack unit, 8-slot chassis with a mid-plane based architecture designed for continuous system operation. This unique architecture allows the ARRIS C4c CMTS to provide integrated Layer 3 edge routing and advanced CMTS functionality combined in a single chassis. Five types of modules are available:

- System Control Module (SCM)
- Router Control Module (RCM)
- 16D Cable Access Module (16D CAM)
- 12U Cable Access Module (12U CAM)
- 2Dx12U Cable Access Module (2Dx12U CAM)

Up to 160 Mbps Subscriber Downstream Speed

The C4c CMTS Rel. 7.1 supports DOCSIS 3.0 downstream channel bonding with variable size bonding groups. This allows for the aggregation of two or more DOCSIS channels to support ultra high bandwidths. For example, four bonded channels provide a 160 Mbps data stream to a subscriber's DOCSIS 3.0 cable modem.

Independent Upstream and Downstream Channel Deployments

The C4c CMTS supports independent downstream and upstream modules allowing an operator to “tailor” available service bandwidth in both the downstream and upstream directions within the same C4c CMTS chassis.

Advanced Services Capabilities

The C4c CMTS inherits a wide array of advanced services capabilities from the widely deployed C4 CMTS, including:

- VoIP using PacketCable or DSx QoS
- Set-top box messaging using DSG/ADSG
- Dynamic bandwidth allocation using PacketCable Multimedia (PCMM)
- Customer traffic segmentation using VRFs
- Network-side 802.1Q tags to identify the VRF to be used for routing
- Usage-based billing and subscriber bandwidth management using IPDR/SP
- Intercept of subscriber IP data and voice traffic using Service Independent Intercept (SII)

Compact High-Density Design

The C4c CMTS is perfect for smaller headends where rack space, powering, or the number of data/VoIP subscribers is limited. Six CAM slots are provided in the chassis for a total capacity of 12 to 60 upstream channels using 12U CAMs and 16 to 80 downstream channels using 16D CAMs.

Enhanced Routing and Networking Technology

The C4c CMTS with the RCM provides enhanced routing and forwarding, including integrated 10GE and ten 1GE network interfaces for direct connection to a cable operator’s IP network. Advanced DOCSIS 3.0 services including IPv6 CM management and service flow classification are available in the C4c CMTS with Release 7.1.

Redundancy Features and Hot Swappable Modules

The mid-plane hardware design supports hitless CAM sparing, and redundancy is built into the design for the powering and cooling functions. All modules in the ARRIS C4c CMTS are designed for “hot-swap” operation and can be inserted or removed while the system remains powered.

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Find more information about C4c CMTS Software and other C4c products.

- Product Specifications — C4c Cable Modem Termination Software Technical Specifications (Publication Code: C4c_CMTS_v71_TS.pdf)

Customer Care

Contact Customer Care for product information and sales

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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