

A Framework for Computing-Aware Traffic Steering (CATS)

draft-ldbc-cats-framework-03
to
draft-ldbc-cats-framework-06

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IETF#119, Brisbane, March 2024

Agenda

- **Changes since Last IETF Meeting**
- **Pending Issues**

Update summary from revision 03 to 04

- Main update from 03-04: Addressed 13 issues, most of them are editorial
- The updates mainly include:
 - Updated the definition of terms including
 - Service Request
 - CATS-Forwarder
 - CATS Path Selector
 - Deleted the description of " The CS-ID does not need to be globally unique, though."
 - Renamed 'Service request' by 'Service Access'
 - Added example of Service-specific Packets and related references

Service request: The request for a specific service. Such a request is steered to a service contact instance.

CATS-Forwarder: A network device that makes forwarding decisions

Service request: A request to access or invoke a specific service. Such a request is steered to a service contact instance via CATS-Forwarders.

A service request is placed using service-specific protocols.

Service requests are not explicitly sent by clients to CATS-Forwarders.

CATS-Forwarder: A network entity that makes forwarding decisions

Update summary from revision 04 to 05

- Main changes:
 - Fixed editorial comments from **Hang Shi, Christian Jacquenet, Cheng Li, Zongpeng, Luis** and others.
 - Clarified that the CATS metrics can be aggregated in deployment
 - Clarified the C-SID with metrics MAY be distributed via different paths to an ingress CATS-Forwarder.
 - Clarified the C-TC and C-PS entries are populated before the service access packets arrival

4.3. Metrics Distribution

As described in Section 3.3, a C-SMA collects both service-related capabilities and metrics, and associates them with a CS-ID that identifies the service. The C-SMA may aggregate the metrics for multiple service contact instances, or maintain them separately or both. The C-SMA then advertises the CS-IDs along with the metrics to be received by all C-PSes in the network. The service metrics include computing-related metrics and potentially other service-specific metrics like the number of end-users who access the service contact instance at any given time, their location, etc.

4.3. Metrics Distribution

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Update summary from revision 05 to 06

- This update mainly integrated some content from draft-yao-cats-awareness-architecture:

- Added a new Section 3.3 Framework Overview to provide a high-level overview of the CATS framework
- Added text in C-PS definition to explain this logical component can be implemented on a Controller
- Added three deployment models: Distributed, Centralized, and Hybrid in Deployment section
- Added related text and figures to describe these three models in Metric distribution section
- Added examples of service access packet in Service access Processing section
- And many other edits

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Current state of the draft

- **IPR call passed with no IPR**


- Thanks for Adrian to issuing the IPR call.
- Thanks for contributors to feedback in short time.

- **WG adoption passed with a lot of supports**

- The draft-ietf-cats-framework-00 has been upload this week.
- We also received some comments in the WG adoption call from Joel, Dirk, Hang, Huijuan, etc.

Pending Issues

[Issues · boucadair/CATS-framework \(github.com\)](#)

 5 Open 26 Closed

Author ▾


Label ▾

Projects ▾


Milestones ▾

Assignee ▾

Sort ▾


 **Editorial review of Figures 3 to 5**

#67 opened 2 days ago by luismcontreras


 **Clarify objective function**

#65 opened last week by boucadair




 **Encrypted service identifiers**

#63 opened last month by boucadair

 **Jim's comment of Service ID mapping**

#53 opened on Dec 7, 2023 by muzixing



 **Discuss more threats in the Security Section**

#8 opened on Mar 3, 2023 by boucadair



Next Steps

- **Address the pending issues**
- **Seek for more reviewers**