



Cloud Data Management Interface Extension: Summary Metadata for Bandwidth

Version 1.0b

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Working Draft

Revision History

Date	Version	By	Comments
1/22/12	1.0a	John Eastman, Mezeo Software James Perry, Mezeo Software	Initial Creation
1/23/12	1.0b	Marie McMinn	Performed technical edit.

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Summary Metadata for Bandwidth CDMI Extension

Domain summaries provide summary measurement information about domain usage and billing. Some systems may track additional usage and billing information related to network bandwidth. This extension proposes a set of additional, optional contents for domain summary objects.

Modifications to the current CDMI spec:

The changes proposed are a set of additional, optional contents for domain summary objects.

1) Insert into Clause 3 - "Terms":

3.x

public network segment

a single IP address or range of IP addresses which are considered external (e.g., WAN)

3.x

private network segment

a single IP address or range of IP addresses which are considered internal (e.g. LAN)

2) Add a table entry to the end of table 63 in clause 10.1.2 as follows:

Metadata Name	Type	Description	Requirement
cdmi_summary_network_bytes	JSON String	Total number of bytes read/written to/from public/private network segments	Optional
cdmi_summary_reads_private	JSON String	Total number of bytes read from private network segment	Optional
cdmi_summary_reads_private_min	JSON String	Minimum number of bytes read from private network segment for the given interval	Optional
cdmi_summary_reads_private_max	JSON String	Maximum number of bytes read from private network segment for the given interval	Optional
cdmi_summary_reads_private_avg	JSON String	Average number of bytes read from private network segment for the given interval	Optional
cdmi_summary_writes_private	JSON String	Total number of bytes written to private network segment	Optional
cdmi_summary_writes_private_min	JSON String	Minimum number of bytes written to private network segment for the given interval	Optional

Metadata Name	Type	Description	Requirement
cdmi_summary_writes_private_max	JSON String	Maximum number of bytes written to private network segment for the given interval	Optional
cdmi_summary_writes_private_avg	JSON String	Average number of bytes written to private network segment for the given interval	Optional
cdmi_summary_reads_public	JSON String	Total number of bytes read from public network segment	Optional
cdmi_summary_reads_public_min	JSON String	Minimum number of bytes read from public network segment for the given interval	Optional
cdmi_summary_reads_public_max	JSON String	Maximum number of bytes read from public network segment for the given interval	Optional
cdmi_summary_reads_public_avg	JSON String	Average number of bytes read from public network segment for the given interval	Optional
cdmi_summary_writes_public	JSON String	Total number of bytes written to public network segment	Optional
cdmi_summary_writes_public_min	JSON String	Minimum number of bytes written to public network segment for the given interval	Optional
cdmi_summary_writes_public_max	JSON String	Maximum number of bytes written to public network segment for the given interval	Optional
cdmi_summary_writes_public_avg	JSON String	Average number of bytes written to public network segment for the given interval	Optional
cdmi_summary_reads_total	JSON String	Total number of bytes read from both public and private network segments	Optional
cdmi_summary_writes_total	JSON String	Total number of bytes written to both public and private network segments	Optional