

# Vembu BDR Suite v4.0

## Edition Comparison

VEMBU TECHNOLOGIES  
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## Vembu BDR Suite

Vembu BDR Suite comes up with three different editions as Free, Standard and Enterprise based on the functionalities needed to protect your business.

Get started with knowing the differences between the functionalities of these editions to make the best decision that fulfills the modern data protection requirements of your business.

- Affordable and flexible pricing with both subscription and perpetual licensing models
- Storage capabilities for a heterogeneous environment
- 24x7 monitoring and management with advanced reporting options
- Complete visibility for multiple platforms on a single pane of glass

## VMware Backup & Replication

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Backup</b>				
<b>Agentless backups for VMware vSphere</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configure image based backups for VMs on ESXi(s) without actually installing any agent inside each VM
<b>vCenter level backup</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Protect VMs on VMware vCenters by configuring agentless image based backups from the Vembu BDR Server console
<b>Application aware backup processing</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Create application aware & database consistent backups for the VMs running on your ESXi host or vCenter server (including log truncation)
<b>Backup multiple VMs</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Backup multiple VMs irrespective of size, type, application, data and operating systems in a single backup job
<b>Automatic Backup Scheduling</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Automate your backups by scheduling them on hourly/ daily/ weekly basis
<b>HotAdd transport mode</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vembu VMBackup utilises the HotAdd feature by automatically mounting the data volume of the virtual machine to the Vembu BDR Server for faster backup processing

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>VM/Disk exclusion</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exclude specific VMs/Disk(s) from being backed up, both at VM level and host level
<b>Near CDP (Continuous Data protection)</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ensure lesser RPO with incremental backups that can be scheduled every 15 minutes
<b>Changed Block Tracking (CBT)</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Only the blocks that have been changed since the previous backup are tracked and backed up in the successive incremental schedule
<b>Forever Incremental</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After the successful full backup, only incremental backups will be taken thereafter
<b>Advanced Reverse Incremental</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vembu's in-house file system-VembuHIVE reduces the I/O latency by virtually merging the incremental backups and retaining it as synthetic full backup for every recovery point
<b>Log truncation for MS Exchange</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	The transaction logs of MS Exchange can be truncated after successful backup for efficient storage management
<b>Log truncation for MS SQL</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Users can truncate the logs of MS SQL post successful backup completion to save storage space
<b>Retention policies (Basic)</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Provides the flexibility to retain upto 99 daily merged recovery points for data archival and management
<b>Retention policies (Advanced- GFS)</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	With this functionality, you can manage recovery points that can span years with multiple merge combinations using daily/weekly/monthly merge options
<b>LAN free data transfer using SAN transport mode</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	On a SAN connected ESXi host, Vembu VMBBackup utilises this fastest data transport mode for backing up virtual machines by obtaining information directly from the SAN or iSCSI LUN where the virtual disks reside
<b>Backup persistent data</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Changes that are made during the Quick Boot session are also stored as persistent data and can eventually be included during the permanent restore
<b>Native Tape Backup Support</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Implement 3-2-1 backup strategy by archiving VMware backup to standalone tapes and tape libraries greater than LTO-3 as a secondary backup





































Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Replication</b>				
VM replication	X	X	✓	Replicate the VM running on an ESXi server to another ESXi server to ensure business continuity
Failover	X	X	✓	Failover the replicated VMs on the secondary site during a disaster
Failback	X	X	✓	Failback the replicated VMs to the source host or different host
<b>Recovery</b>				
Quick VM recovery to ESXi	✓	✓	✓	Instantly recover the backup by booting it as a VM on an ESXi host
Quick VM recovery to Hyper-V	✓	✓	✓	Instantly recover the backup by booting it as a VM on a Hyper-V host
Quick VM recovery to KVM	✓	✓	✓	Instantly recover the backup by booting it as a VM on a KVM host
Permanent VM recovery	✓	✓	✓	Recover your backup data permanently to an ESXi host as a VM. You can configure the specification of the Virtual Hardware while performing the recovery.
Instant granular recovery for Microsoft Exchange	✓	✓	✓	Browse, search and restore the individual Exchange items such as emails, calendars, contacts of users directly from the backed up data using Vembu Universal Explorer.
Instant granular recovery for Microsoft SQL	✓	✓	✓	Browse, search and restore the individual databases and tables from the backed up VM using Vembu Universal Explorer.
Instant granular recovery for Microsoft SharePoint	✓	✓	✓	Browse, search and restore the individual SharePoint sites and documents from the backed up data using Vembu Universal Explorer
Instant granular recovery for Microsoft Active Directory	✓	✓	✓	Browse, search and restore the individual user roles and other AD items from the backed up VM using Vembu Universal Explorer without restoring entire backup

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Cross Hypervisor Migration (V2V)</b>	✓	✓	✓	Perform quick migration with lesser time from one hypervisor to another
<b>Instant File-level recovery</b>	✓	✓	✓	Instantly recover the individual files and folders from the backed up VMs without actually restoring the entire VM
<b>Disk Management mount</b>	✓	✓	✓	Attach the backed up disks of your VMs virtually to the disk management of local machine through the Vembu virtual drive and restore the necessary files
<b>Disk level recovery</b>	✗	✗	✓	Attach the disks of the backed up VM to another VM on an ESXi host
<b>Persistent boot</b>	✗	✗	✓	The changes made on the Quick booted VMs will also be tracked and backed up. Include or exclude these changes while going for permanent recovery.
<b>Management</b>				
<b>Web based management console</b>	✓	✓	✓	Configure, edit and monitor your backups from a single web based user interface
<b>Reports and email notification</b>	✓	✓	✓	Status report of every backup schedule is generated and it can be delivered as an Email to the users
<b>Multiple Storage location</b>	✓	✓	✓	Storage devices of any file system that include local, SAN, NAS, DAS can be used for storage
<b>In-built compression and deduplication</b>	✓	✓	✓	Backed up data is stored on the backup server after compression and deduplication to manage storage efficiently
<b>End-to-end encryption</b>	✓	✓	✓	Encrypt all your backup data with inbuilt AES-256 bit algorithm for secure backups
<b>OffsiteDR replication</b>	✗	✓	✓	Offsite Disaster Recovery provides extended data protection to safeguard sensitive business data by replicating them from production site to offsite data center for spontaneous data recovery.
<b>CloudDR replication</b>	✗	✓	✓	Create redundant copies of the backed up data by replicating multiple backup servers to the Vembu Cloud residing in AWS and recover them from anywhere at anytime

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>WAN acceleration</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	The compressed, encrypted and deduplicated blocks that are sent off-site are optimized thereby saving bandwidth
<b>Backup window settings</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prevent backups from interrupting your network traffic during critical operations by blocking the backup schedule for certain periods
<b>Web services API</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Integrate Vembu BDR Suite with third party products using the Web Service API's provided by Vembu. You can use these APIs to automate any of the operations
<b>Group Management</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Helps administrators orchestrate the backup data and leverage them to users by providing either full or restricted access
<b>Vembu BDR360 for centralized monitoring</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	End-to-End visibility to all the backup jobs through a single centralized web portal to enhance the productivity with extended reports and email notifications.
<b>Scale-out storage repository</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Scale out your storage repository by adding physical/network storage devices based on your storage needs and utilization
<b>Automated backup verification</b>	X	X	<input checked="" type="checkbox"/>	Verify the recoverability of the backup data automatically by performing boot, mount and integrity check for every image based backup jobs
<b>Distributed Vembu VMBackup agents</b>	X	X	<input checked="" type="checkbox"/>	Deploy proxies on multiple clients to decrease the load on the main backup server
<b>Bandwidth throttling in client &amp; Backup server</b>	X	X	<input checked="" type="checkbox"/>	Optimize your network utilization during peak production hours by limiting bandwidth usage.

## Hyper-V Backup

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Backup</b>				
<b>Agentless image backups for Hyper-V</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Configure image backups for VMs running under Hyper-V on SMB share without installing an agent inside each VM
<b>Backup VMs running on Hyper-V Cluster</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Backup the VMs running on Hyper-V cluster, even if the VMs configured for the backups moves from one host to another
<b>Backup Hyper-V on Cluster Shared Volumes</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Protect the Hyper-V servers residing on Cluster Shared Volumes
<b>Shared VHDX backup</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Backup the data from Shared VHDX
<b>Application Aware backup processing</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Create application aware & database consistent backups for the VMs running on your ESXi host or vCenter server (including log truncation)
<b>Backup multiple VMs</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Backup multiple VMs irrespective of size, type, application, data and operating systems in a single backup job
<b>Automatic Backup Scheduling</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Automate your backups by scheduling them on hourly/ daily/ weekly basis
<b>VM/Disk exclusion</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exclude specific VMs/Disk(s) from being backed up, both at VM level and host level
<b>Near CDP (Continuous Data protection)</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ensure lesser RPO with incremental backups that can be scheduled every 15 minutes
<b>Changed Block Tracking (CBT)</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Only the blocks that have changed since the previous backup are tracked and backed up in the successive incremental schedule
<b>Forever Incremental</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After the successful full backup, only the incremental backups will be taken thereafter
<b>Advanced Reverse Incremental</b>	 upto 3 VM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vembu's in-house file system-VembuHIVE reduces the I/O latency by virtually merging the incremental backups and retaining it as synthetic full backup for every recovery point

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Log truncation for MS Exchange</b>	 upto 3 VM			The transaction logs of MS Exchange can be truncated after successful backup for efficient storage management
<b>Log truncation for MS SQL</b>	 upto 3 VM			Users can truncate the logs of MS SQL post successful backup completion to save storage space
<b>Retention policies (Basic)</b>	 upto 3 VM			Provides the flexibility to retain upto 99 daily merged recovery points for data archival and management
<b>Retention policies (Advanced- GFS)</b>				With this functionality, you can manage recovery points that span years with multiple merge combinations using daily/weekly/monthly merge options
<b>Backup persistent data</b>				Changes that are made during the quick boot session are stored as persistent data and can eventually be recovered during permanent restore
<b>Native Tape Backup Support</b>				Implement 3-2-1 backup strategy by archiving the Hyper-V backup to standalone tapes and tape libraries greater than LTO-3 as a secondary backup
<b>Recovery</b>				
<b>Quick VM recovery to Hyper-V</b>				Instantly recover the backup by booting it as a VM on a Hyper-V host
<b>Quick VM recovery to ESXi</b>				Instantly recover the backup by booting it as a VM on an ESXi host
<b>Quick VM recovery to KVM</b>				Instantly recover the backup by booting it as a VM on a KVM host
<b>Permanent VM recovery</b>				Recover your backup data permanently to an ESXi host as a VM
<b>Instant granular recovery for Microsoft Exchange</b>				Browse, search and restore the individual Exchange items such as emails, calendars, contacts of users directly from the backed up data using Vembu Universal Explorer.
<b>Instant granular recovery for Microsoft SQL</b>				Browse, search and restore the individual databases and tables from the backed up VM using Vembu Universal Explorer.



Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>Instant granular recovery for Microsoft SharePoint</b>	✓	✓	✓	Browse, search and restore the individual SharePoint sites and documents from the backed up data using Vembu Universal Explorer
<b>Instant granular recovery for Microsoft Active Directory</b>	✓	✓	✓	Browse, search and restore the individual user roles and other AD items from the backed up VM using Vembu Universal Explorer without restoring entire backup
<b>Cross Hypervisor Migration (V2V)</b>	✓	✓	✓	Perform quick migration with lesser time from one hypervisor to another
<b>Instant File-Level recovery</b>	✓	✓	✓	Instantly recover the individual files and folders from the backed up VMs without actually restoring the entire VM
<b>Disk Management mount</b>	✓	✓	✓	Attach the backed up disks of your VMs virtually to the disk management of local machine through the Vembu virtual drive and restore the necessary files
<b>Persistent boot</b>	✗	✗	✓	The changes made on the Quick booted VMs will be tracked and backed up. The changes can be included or excluded during permanent recovery.
<b>Management</b>				
<b>Web based management console</b>	✓	✓	✓	Configure, edit and monitor your backups from a single web based user interface
<b>Reports and email notification</b>	✓	✓	✓	Status report of every backup schedule is generated and it can be delivered as an Email to the users
<b>Multiple Storage location</b>	✓	✓	✓	Storage devices of any file system that include local, SAN, NAS, DAS can be used for storage
<b>In-built compression and deduplication</b>	✓	✓	✓	Backed up data is stored on the backup server after compression and deduplication to manage storage storage efficiently
<b>End-to-end encryption</b>	✓	✓	✓	Encrypt all your backup data with inbuilt AES-256 bit algorithm for secure backups
<b>OffsiteDR replication</b>	✗	✓	✓	Offsite Disaster Recovery provides extended data protection to safeguard sensitive business data by replicating them from production site to offsite data center for spontaneous data recovery.

Features	Free Edition	Standard Edition	Enterprise Edition	Notes
<b>CloudDR replication</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Create redundant copies of the backed up data by replicating multiple backup servers to the Vembu Cloud residing on AWS and recover them from anywhere at anytime
<b>WAN acceleration</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	The compressed, encrypted and deduplicated blocks that are sent off-site are optimized thereby saving bandwidth
<b>Backup window settings</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prevent backups from interrupting your network traffic during critical operations by blocking the backup schedule for certain periods
<b>Web services API</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Integrate Vembu BDR Suite with third party products using the Web Service API's provided by Vembu. You can use these APIs to automate any of the operations
<b>Group Management</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Helps administrators orchestrate the backup data and leverage them to users by providing either full or restricted access
<b>Vembu BDR360 for centralized monitoring</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	End-to-End visibility to all the backup jobs through a single centralized web portal to enhance the productivity with extended reports and email notifications.
<b>Scale-out storage repository</b>	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Scale out your storage repository by adding physical/network storage devices based on your storage needs and utilization
<b>Automated backup verification</b>	X	X	<input checked="" type="checkbox"/>	Verify the recoverability of the backup data automatically by performing boot, mount and integrity check for every image based backup jobs
<b>Distributed Vembu VMBBackup agents</b>	X	X	<input checked="" type="checkbox"/>	Deploy proxies on multiple clients to decrease the load on the main backup server
<b>Bandwidth throttling in client &amp; backup server</b>	X	X	<input checked="" type="checkbox"/>	Optimize your network utilization during peak production hours by limiting bandwidth usage

## Windows Server Backup

Features	Free Edition	Enterprise Edition	Notes
<b>Backup</b>			
Full Image backup	✓	✓	Backup the entire machine including the operating system, applications and data
Backup selected disks or volumes	✓	✓	The user can backup a particular disk or volumes of their need
Backup MBR & GPT Partitions	✓	✓	The GPT partitioned disks or disks more than 2TB will also be backed up
Backup disks more than 2 TB	✓	✓	The disks which are more than 2 TB can also be backed up using Vembu ImageBackup
Application Aware Backup Processing	✓	✓	Create application consistent, image-level backups with advanced Application-Aware processing (including transaction log truncation).
Automatic Backup Scheduling	✓	✓	Backups can be automatically scheduled as per the user's flexibility
Edit existing backup job configuration	✓	✓	Backup jobs can be re-configured any number of times as per the user's needs
Near CDP (Continuous Data Protection)	✗	✓	Incremental backup can be scheduled every 15 mins to ensure RPO < 15 mins
Changed Block Tracking (CBT)	✗	✓	Only the blocks which have changed since the previous backup are tracked and the changed blocks are alone backed up in the successive backup
Forever incremental	✗	✓	After the successful full backup, only the incremental backups will be taken thereafter
Advanced Reverse Incremental	✗	✓	Vembu's in-house file system-VembuHIVE reduces the I/O latency by virtually merging the incremental backups and retaining it as synthetic full backup for every recovery point
Retention Policies (Basic)	✗	✓	Provides the flexibility to retain upto 99 daily merged recovery points for data archival and management

Features	Free Edition	Enterprise Edition	Notes
<b>Retention policies (Advanced- GFS)</b>	X	☑	With this functionality, you can manage recovery points that span years with multiple merge combinations using daily/weekly/monthly merge options
<b>Backup persistent data</b>	X	☑	Changes that are made during the quick boot session are stored as persistent data and can eventually be recovered during permanent restore
<b>Recovery</b>			
<b>Bare metal Recovery</b>	☑	☑	Recover the backed up image data to a new hard-drive using Vembu Recovery CD
<b>File Level Recovery</b>	☑	☑	Individual files and folders can be easily recovered from the image backup instead of restoring the whole machine
<b>Quick VM Recovery to VMware</b>	☑	☑	The backed up image data will be instantly booted on ESXi host
<b>Quick VM Recovery to Hyper-V</b>	☑	☑	The backed up image data will be instantly booted on Hyper-V host
<b>Quick VM Recovery to KVM</b>	☑	☑	The backed up image data will be instantly booted on KVM host
<b>Disk Management Mount</b>	☑	☑	Auto attach the backed up image data (physical or virtual machine) on the disk management of local machine through the Vembu virtual drive
<b>Instant Granular Recovery for Microsoft Exchange</b>	☑	☑	Browse, search and restore the individual Exchange items such as emails, calendars, contacts of users directly from the backed up data using Vembu Universal Explorer.
<b>Instant Granular Recovery for Microsoft SQL</b>	☑	☑	Restore the individual databases or tables using Vembu Universal Explorer without restoring entire machine
<b>Instant Granular Recovery for Microsoft SharePoint</b>	☑	☑	Restore the SharePoint sites and documents using Vembu Universal Explorer without restoring entire SharePoint machine
<b>Instant Granular Recovery for Microsoft Active Directory</b>	☑	☑	Restore the user roles and other AD objects using Vembu Universal Explorer without restoring entire AD machine

Features	Free Edition	Enterprise Edition	Notes
<b>Cross platform Migration (P2V)</b>	✓	✓	The backed up image data can be migrated to the hypervisors such as VMware ESXi or Microsoft Hyper-V
<b>Disk/Partition Recovery</b>	✗	✓	This option lets you restore backed up machines at disk/partition level in servers.
<b>Persistent boot</b>	✗	✓	The changes made on the Quick booted VMs will also be tracked and backed up. The changes can be included or excluded during permanent recovery.

## Management

<b>Web based management console</b>	✓	✓	The backups are configured and edited from a single web console
<b>Reports and email notifications</b>	✓	✓	Status report of all backup schedules will be available in a single page and the same can be emailed to users
<b>Multiple storage location</b>	✓	✓	Storage devices of any file system that include local, SAN, NAS, DAS can be used for storage
<b>Scale out storage repository</b>	✓	✓	Based on storage utilization the storage devices can be easily scaled out
<b>In-built Compression &amp; Deduplication</b>	✓	✓	Backed up data is stored on the backup server after compression and deduplication to manage storage efficiently
<b>End-to-End encryption</b>	✓	✓	The backed up data is encrypted against threats using AES-256 bit encryption algorithm
<b>Bandwidth Throttling</b>	✓	✓	The bandwidth of the backup job can be throttled to reduce the network traffic during peak production hours
<b>Automated Backup Verification</b>	✗	✓	Verify the recoverability of the backed up images by viewing the screenshot of the booted Image backup.
<b>OffsiteDR Replication</b>	✗	✓	The Backed up data will be replicated to an offsite location for Disaster recovery
<b>CloudDR Replication</b>	✗	✓	The Backed up data will be replicated to Vembu Cloud for Disaster recovery

Features	Free Edition	Enterprise Edition	Notes
<b>Tape Backup</b>	X	<input checked="" type="checkbox"/>	Implement 3-2-1 backup strategy by archiving the Windows Image backup to tape libraries greater than LTO-3 as a secondary backup
<b>WAN Acceleration</b>	X	<input checked="" type="checkbox"/>	Only the compressed, encrypted and deduplicated blocks are sent offsite for replication, resulting in a significant decrease in the amount of data transfer

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