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Claim Language	How Practiced by Defendants' Systems Using Microsoft's Distributed Replication or SharePoint and Remote Differential Compression
	MUST be the MD4 hash [RFC1320] of the data in the chunk, and the block the number of bytes in the chunk. Because the block length is an unsigne chunks MUST be less than or equal to 216-1 bytes in length. Recall that comprise the data in the signature file." ²⁷
	MD5 was created shortly after MD4, by the same author. It is an extension the RDC system performs the same function as MD5 in claim 16, in the state same result.
[17.] A method for increasing data access performed by a sender/computer in a packet- switched network, said sender/computer including an operating unit, a first memory, a permanent storage memory and a processor and said sender/computer being operative to transmit principal data to a receiver/computer, said method comprising the steps of:	On information and belief, Defendants practice claim 17 literally or unde equivalents by, for example, using DFS Replication and/or SharePoint or internal networks and by inducing their customers to use DFS Replication Additionally, HP, Dell, and Acer practice claim 17 by making, using, sel and/or licensing systems that use DFS Replication and/or SharePoint. DF SharePoint use RDC. ²⁹
	In the DFS Replication context, the sender/computer is in a packet-switch transmits data to a receiver/computer, e.g.:
	"In a typical RDC scenario, a server and a client have different versions of client and server refer only to the computers' roles in this scenario, not the systems.)" ³⁰
	"RDC is suitable for applications that move data across a wide area netw

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²⁷ [MS-RDC] at 19.
²⁸ RFC 1321: "The MD5 Message-Digest Algorithm" (1992) at 2.
²⁹ DFS Replication is used herein for exemplary purposes only. SharePoint and other products that use RDC will
³⁰ "About Remote Differential Compression" ¶ 12.
³¹ "About Remote Differential Compression" ¶ 6.

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Claim Language	How Practiced by Defendants' Systems Using Microsoft's Distributed Replication or SharePoint and Remote Differential Compression
	The sender/computer includes an operating unit, a first memory (e.g., RA storage memory (e.g., hard disk drive), a processor, and a network cache staging folder that is in a network cache memory), e.g.:
	"DFS Replication uses staging folders to act as caches for new and chang replicated from sending members to receiving members The receiving the data and builds the file in its staging folder." ³²
creating and transmitting digital digests of said principal data and of one or more auxiliary data from said sender/computer to said receiver/computer;	The sender/computer creates and transmits a message containing digital of data (e.g., source signature list) to the receiver, e.g.: "The client initiates the RDC protocol by requesting the source signature Then the client compares each source signature against the signatures in a list." ³³ "The RDC client and server each use the RDC library's FilterMax signat divide their copy of the file into chunks and compute a strong hash, calle chunk of file data." ³⁴ "2. Machine B partitions <i>file</i> f _B into chunks and computes the signature for Machine B sends its list of chunk signatures, SigB ₁ SigB _n , to Machine the basis for Machine A being able to reconstruct <i>file</i> f _B ." ³⁵

³² "Staging Folders and Conflict and Deleted folders" ¶ 1.
³³ "About Remote Differential Compression" ¶ 14.
³⁴ "About Remote Differential Compression" ¶ 13.
³⁵ [MS-RDC] at 9.

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<u>Claim Language</u>	How Practiced by Defendants' Systems Using Microsoft's Distributed Replication or SharePoint and Remote Differential Compression
	The sender/computer creates and transmits a message containing digital of data (e.g., similarity data) to the receiver, e.g.: "3. Using similarity data, as described in section 3.1.5.4, Machine A sele file and partitions it into chunks. It computes a signature for each chunk, section 3.1.5.2." ³⁷ "To help choose seed files under the circumstances outlined in the preceds similarity data for new <i>files</i> at the source location are calculated and sent The similarity data is used on the target location to find existing <i>files</i> that new source location <i>files</i> ." ³⁸
	"3.2.4.1.14 InitializeFileTransferAsync (Opnum 13) The InitializeFileTransferAsync method is used by a client to start a file of supplies an update to specify which file to download. The server provide the update and initial file contents. The server returns information about to being replicated and the first buffer of data from that file (if any). frsUpdate: The FRS_UPDATE structure that contains information about replicated. The fields for the UID in <i>frsUpdate</i> MUST be set to the UID of downloaded. All other fields are cleared (zeroed out) or can have the value server in the response to a RequestUpdates call. On return, all fields of <i>fr</i> contain the values that are held by the server." ³⁹

- ³⁶ [MS-FRS2] at 64.
 ³⁷ [MS-RDC] at 9.
 ³⁸ [MS-RDC] at 21.
 ³⁹ [MS-FRS2] at 71.

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Claim Language	How Practiced by Defendants' Systems Using Microsoft's Distributed Replication or SharePoint and Remote Differential Compression
	 "2.2.1.4.4 FRS_UPDATE A structure that contains file metadata related to a particular file being pr Distributed File System Replication (DFS-R). rdcSimilarity: The similarity hash of the file. The value will be all zeros i was not computed. See [MS-RDC], 3.1.5.4."⁴⁰
receiving a response signal at said sender/computer from said receiver/computer, said response signal containing a positive, negative or partial indication signal, and	The receiver/computer transmits a response signal for the digital digest, of partial or negative indication signal, e.g.: "The client initiates the RDC protocol by requesting the source signature Then the client compares each source signature against the signatures in a list. If a source signature matches a seed signature, the client already has signature. If a source signature does not appear in the client's list of seed must request the specified chunk (of file data) from the server The cl each needs block and copies the specified chunk of the source or seed file file. Seed file data is copied locally. Source file data is downloaded from similar the seed and source files are, the less network bandwidth is requir file." ⁴¹ "5. Machine A sends a request to Machine B for all the chunks whose sig in the previous step from Machine B, but that did not have a matching sig A. The chunks are requested by offset and length in <i>file</i> f _B based on corre that was sent in step 2." ⁴²

- ⁴⁰ [MS-FRS2] at 71.
 ⁴¹ "About Remote Differential Compression" ¶¶ 14, 16.
 ⁴² [MS-RDC] at 9.

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Claim Language	How Practiced by Defendants' Systems Using Microsoft's Distributed Replication or SharePoint and Remote Differential Compression
	"3.2.4.1.9 RawGetFileData (Opnum 8) The RawGetFileData method is used to transfer successive segments of data for a file from the server to the client." ⁴³
	"3.2.4.1.11 RdcPushSourceNeeds (Opnum 10) The RdcPushSourceNeeds method is used to register requests for file ran
	"3.2.4.1.12 RdcGetFileData (Opnum 11) The RdcGetFileData method is used to obtain file ranges whose requests queued on a server by calling the RdcPushSourceNeeds method." ⁴⁵
	"3.2.4.1.13 RdcClose (Opnum 12) The RdcClose method informs the server that the server context informat released." ⁴⁶
	"3.2.4.1.15 RawGetFileDataAsync (Opnum 15) The RawGetFileDataAsync method is used instead of calling RawGetFile to obtain file data. As specified in [MS-RPCE], the specification for asyn RPC client pulls file data from the byte pipe until receiving an end-of-file pipe." ⁴⁷
	"3.2.4.1.16 RdcGetFileDataAsync (Opnum 16) The RdcGetFileDataAsync method is used instead of calling RdcGetFile obtain file data. As specified in [MS-RPCE], the specification for asynch

- ⁴³ [MS-FRS2]: Distributed File System Replication Protocol v20151016 at 63.
 ⁴⁴ [MS-FRS2] at 66-67.
 ⁴⁵ [MS-FRS2] at 67-68.
 ⁴⁶ [MS-FRS2] at 70.
 ⁴⁷ [MS-FRS2] at 76.

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