

LS-20060220

Computer Associates BrightStor ARCserve Backup Remote Buffer Overflow Vulnerability

Release Date:

10/05/2006

Date Reported:

02/20/2006

Severity:

Critical (Remote Code Execution)

Vendor:

Computer Associates

Product:

BrightStor® ARCserve® Backup provides a complete, flexible and integrated backup and recovery solution for Windows, NetWare, Linux and UNIX environments.

<http://www3.ca.com/solutions/ProductFamily.aspx?ID=115>

Systems Affected:

- BrightStor ARCserve Backup R11.5 Client
- BrightStor ARCserve Backup R11.5 Server
- BrightStor Enterprise Backup 10.5
- BrightStor ARCserve Backup v9.01
- CA Server Protection Suite r2
- CA Business Protection Suite r2

Overview:

LSsec has discovered a vulnerability in Computer Associates BrightStor ARCserve Backup, which could be exploited by an anonymous attacker in order to execute arbitrary code with SYSTEM privileges on an affected system. The flaw specifically exists within the Discovery Service (casdscsvc.exe) due to incorrect handling of requests on TCP port 41523.

Vulnerability Details:

The BrightStor software will automatically detect other BrightStor (ARCserve) servers on the local network. The Discovery Service sends a packet to the broadcast address of a given subnet. Each system running the Discovery Service responds to the IP address embedded in the broadcast packet.

All systems discovered on the subnet transmit their hostnames and IP addresses and then read in the hostname of the system which initiated the broadcast.

This hostname is copied into a fixed 1024 byte stack buffer by use of an incongruous call to vsprintf() in ASBRDCST.DLL

```
.text:20C19970 sub_20C19970 proc near ; CODE XREF: sub_20C02080+34↑p
.text:20C19970 ; sub_20C02160+130↑p ...
.text:20C19970
.text:20C19970 var_400 = dword ptr -400h
.text:20C19970 arg_0 = dword ptr 4
.text:20C19970 arg_4 = dword ptr 8
.text:20C19970 arg_8 = byte ptr 0Ch
.text:20C19970
.text:20C19970 mov ecx, [esp+arg_4]
.text:20C19974 sub esp, 400h
.text:20C1997A lea eax, [esp+400h+arg_8]
.text:20C19981 lea edx, [esp+400h+var_400]
.text:20C19985 push eax ; src
.text:20C19986 push ecx ; "Data Received From Server: %s(size=%d)"
.text:20C19987 push edx ; dst
.text:20C19988 call ds:vsprintf
```

Copyright © 2006 LS Security

Permission is granted for the redistribution of this alert electronically. It may not be edited in any way without the express written consent of LSsec. If you wish to reprint the whole or any part of this alert in any other medium other than electronically, please email request@lssec.com for permission.

Disclaimer

The information within this paper may change without notice. Use of this information constitutes acceptance for use in an AS IS condition. There are no warranties, implied or express, with regard to this information. In no event shall the author be liable for any direct or indirect damages whatsoever arising out of or in connection with the use or spread of this information. Any use of this information is at the user's own risk.