

LS-20060908

## Computer Associates BrightStor ARCserve Backup v11.5 Remote Buffer Overflow Vulnerability

### Release Date:

12/08/2006

### Date Reported:

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### 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 Server < SP2

### Patch:

Service Pack 2 resolves this issue

### Overview:

LSsec has discovered a vulnerability in Computer **Associates BrightStor ARCserve Backup v11.5**, 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 Tape Engine (tapeeng.exe) due to incorrect handling of RPC requests on TCP port 6502. The interface is identified by **62b93df0-8b02-11ce-876c-00805f842837**. **Opnum 37** specifies the vulnerable operation within this interface.

### Vulnerability Details:

TAPEENG.dll v11.5.3884.0 contains a buffer overflow vulnerability due to incongruous use of vsprintf()

```
0027C64D  LEA ECX, DWORD PTR SS:[EBP+14]          ; arglist
0027C650  PUSH ECX
0027C651  MOV EDX, DWORD PTR SS:[EBP+10]         ; fmt
0027C654  PUSH EDX
0027C655  LEA EAX, DWORD PTR SS:[EBP-1924]       ; dst
0027C65B  PUSH EAX
0027C65C  CALL DWORD PTR DS:[<&MSVCRT.vsprintf>] ; MSVCRT.vsprintf
```

fmt: "RPCGetGroupStatus:: Group %s NOT available. retStatus = 0x%x, groupStatus = %u. Hence Releasing LOCK."

This specific flaw requires the Message Log Level to be set to either "*Detail*" or "*Detail, with Read/Writes*".

Following Log Levels are available:

- 0x00: None
- 0x01: Summary
- 0x02: Detail
- 0x03: Detail, with Read/Writes

Following Output Types are available:

- 0x00: Both, Screen and File
- 0x01: Screen Only
- 0x02: File Only

Each Log Level / Output Type is represented by a specific ID which is stored in the .data section of TAPEUTIL.dll and queried before data is getting logged. The Log Level ID is stored at 0x6F7410 and the Output Type at 0x6F7418.

Sending a packet with the following stub to **Opnum 43** allows us to change the Log Level remotely:

- +00h DWORD
- +04h DWORD <Log Level>
- +08h DWORD <Output Type>
- +0Ch DWORD
- +10h DWORD

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