Pre-Advisory Name: SAP RFC_START_GUI RFC Function Buffer Overflow

Vulnerability Class: Buffer Overflow

Release Date: 2007-04-03

Affected Applications:
- SAP RFC Library 6.40
- SAP RFC Library 7.00

Affected Platforms:
- AIX 32bit
- AIX 64bit
- HP-UX on IA64 64bit
- HP-UX on PA-RISC 64bit
- Linux on IA32 32bit
- Linux on IA64 64bit
- Linux on Power 64bit
- Linux on x86_64 64bit
- Linux on zSeries 64bit
- Mac OS
- OS/400
- OS/400 V5R2M0
- Reliant 32bit
- Solaris on SPARC 32bit
- Solaris on SPARC 64bit
- Solaris on x64_64 64bit
- TRU64 64bit
- Windows Server on IA32 32bit
- Windows Server on IA64 64bit
- Windows Server on x64 64bit
- z/OS 32bit

Local / Remote: Remote

Severity: High

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Vendor Status:
- Confirmed. Updates Released.

Reference to Vulnerability Disclosure Policy:

Product Overview:

“The RFC Library offers an interface to a SAP System. The RFC Library is the most commonly used and installed component of existing SAP Software. This interface provides the opportunity to call any RFC Function in a SAP System from an external application. Moreover, the RFC Library offers the possibility to write a RFC Server Program, which is accessible from any SAP System or external application. Most SAP Connectors use the RFC Library as communication platform to SAP Systems.”

RFC_START_GUI RFC Function is used to start SAPGUI on front-end systems. This function is installed by default in every external RFC server.

Vulnerability Description:

A remote buffer overflow vulnerability has been detected in the RFC_START_GUI RFC Function.

Technical Details:

Technical details will be released three months after publication of this pre-advisory. This was agreed upon with SAP to allow their customers to upgrade affected software prior to technical knowledge been publicly available.

Impact:

This vulnerability may allow an attacker to remotely execute arbitrary commands over external RFC servers.

Solutions:

SAP has released patches to address this vulnerability. Affected customers should apply the patches immediately. More information can be found on SAP Note 1003908.
Vendor Response:

- 2006-11-21: Initial Vendor Contact.
- 2006-12-01: Vendor Confirmed Vulnerability.
- 2006-12-11: Vendor Releases Update for version 7.00.

Special Thanks:

Thanks goes to Victor Montero and Gustavo Kunst.

Contact Information:

For more information regarding the vulnerability feel free to contact the author at mnunez <at> cybsec <dot> com.

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