

# Software Vulnerability Information

## Software Division

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## Vulnerability in Detecting Viruses Contained in Divided Email

In Groupmax Mail - SMTP, a security problem was found that Groupmax Server - Scan did not detect viruses contained in divided email. Take the following countermeasures to handle this problem.

The following table lists the products that have this vulnerability. Note, however, that this security problem only applies to a configuration in which Groupmax Mail-SMTP is used as functionality for email linkage and Groupmax Server - Scan is used to check viruses in email received by Groupmax Mail-SMTP.

### ● Japanese version

No.	Model	Product	Version	Platform
1	P-2446-5134	Groupmax Server Set Version 5	All versions/revisions	Windows
2	P-2446-513U	Groupmax Server Set Upgrade Version 5	All versions/revisions	Windows
3	P-2446-5334	Mail Server Set Version 5	All versions/revisions	Windows
4	P-2446-533U	Mail Server Set Upgrade Version 5	All versions/revisions	Windows
5	P-2446-5634	Groupware Server Set Version 5	All versions/revisions	Windows
6	P-2446-563U	Groupware Server Set Upgrade Version 5	All versions/revisions	Windows
7	P-2446-5144	Groupmax Server Set Version 6	All versions/revisions	Windows
8	P-2446-5344	Mail Server Set Version 6	All versions/revisions	Windows
9	P-2446-5644	Groupware Server Set Version 6	All versions/revisions	Windows
10	R-15236-636	Groupmax Server - Scan Version 5	All versions/revisions	Windows
11	R-15236-637	Server - Scan - Connector Version 5	All versions/revisions	Windows
12	R-15236-656	Groupmax Server - Scan Version 6	All versions/revisions	Windows
13	R-15236-657	Server - Scan - Connector Version 6	All versions/revisions	Windows
			All	HI-

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> Product names of Hitachi and other manufacturers



14	P-1646-513	Groupmax Server Set Version 5	versions/revisions	UX/WE2
15	P-1646-513U	Groupmax Server Set Upgrade Version 5	All versions/revisions	HI-UX/WE2
16	P-1646-533	Mail Server Set Version 5	All versions/revisions	HI-UX/WE2
17	P-1646-533U	Mail Server Set Upgrade Version 5	All versions/revisions	HI-UX/WE2
18	P-1646-563	Groupware Server Set Version 5	All versions/revisions	HI-UX/WE2
19	P-1646-563U	Groupware Server Set Upgrade Version 5	All versions/revisions	HI-UX/WE2
20	P-1646-514	Groupmax Server Set Version 6	All versions/revisions	HI-UX/WE2
21	P-1646-534	Mail Server Set Version 6	All versions/revisions	HI-UX/WE2
22	P-1646-564	Groupware Server Set Version 6	All versions/revisions	HI-UX/WE2
23	R-16236-636	Groupmax Server - Scan Version 5	All versions/revisions	HI-UX/WE2
24	R-16236-656	Groupmax Server - Scan Version 6	All versions/revisions	HI-UX/WE2
25	P-1B46-5131	Groupmax Server Set Version 5	All versions/revisions	HP-UX
26	P-1B46-513U	Groupmax Server Set Upgrade Version 5	All versions/revisions	HP-UX
27	P-1B46-5331	Mail Server Set Version 5	All versions/revisions	HP-UX
28	P-1B46-533U	Mail Server Set Upgrade Version 5	All versions/revisions	HP-UX
29	P-1B46-5631	Groupware Server Set Version 5	All versions/revisions	HP-UX
30	P-1B46-563U	Groupware Server Set Upgrade Version 5	All versions/revisions	HP-UX
31	P-1B46-5141	Groupmax Server Set Version 6	All versions/revisions	HP-UX
32	P-1B46-5341	Mail Server Set Version 6	All versions/revisions	HP-UX
33	P-1B46-5641	Groupware Server Set Version 6	All versions/revisions	HP-UX
34	R-18236-636	Groupmax Server - Scan Version 5	All versions/revisions	HP-UX
35	R-18236-656	Groupmax Server - Scan Version 6	All versions/revisions	HP-UX
36	P-1M46-5141	Groupmax Server Set Version 6	All versions/revisions	AIX
37	P-1M46-5341	Mail Server Set Version 6	All versions/revisions	AIX
38	P-1M46-5641	Groupware Server Set Version 6	All versions/revisions	AIX

## Details of the problem

Internet clients that divide an email to send uses the protocol defined

in RFC2046. If you use an Internet client (POP3/IMAP4) to retrieve the parts of an email from the Groupmax Mail Server, the Internet client assembles the parts into an email. If a virus exists in the divided parts of an email, the virus is not detected until the email is assembled and the virus is also assembled. If you open an email that contains an assembled virus, your computer may be infected. Note that this problem does not apply to the Groupmax client because the Groupmax client does not have functionality to assemble parts into an email.

## Conditions

Your computer may be infected by viruses if it satisfy all the following conditions:

- In the Groupmax Mail - SMTP settings, the MIME structure information (mimestructure) setting is enabled (by default it is disabled).
- During setup of Groupmax Mail Server, the POP3/IMAP4 functionality was enabled (by default it is disabled).
- Groupmax Server - Scan is used.
- An Internet client (POP3/IMAP4) is used to retrieve and assemble all divided email.
- Virus checking software for email is not used between Groupmax Mail - SMTP and the firewall. Alternatively, although virus checking software is used, it does not support virus detection for divided email.
- Virus checking software is not installed on the client machine that contains an Internet client (POP3/IMAP4). Alternatively, virus checking software is installed but not made resident.

## Countermeasures

You can take one of the following countermeasures:

- In the Groupmax Mail - SMTP settings, disable the MIME structure information (mimestructure) setting.
- On the client machine that contains an Internet client (POP3/IMAP4), install virus checking software and make it resident on memory.
- Use virus checking software that supports virus detection for divided email between Groupmax Mail - SMTP and the firewall.

The following procedure shows how to disable the MIME structure information (mimestructure) setting in Groupmax Mail - SMTP. The menu items and messages are displayed in Japanese.

No.	Procedure
1	Stop the Mail - SMTP service.
2	In Windows NT or Windows 2000, start the Mail-SMTP setup. In HI-UX/WE2, HP-UX, or AIX, start the smtpmng command.
3	From the smtpmng> prompt, select 2 (2. edit_format (ef)).
4	From the edit_format> prompt, select 3 (3. format received email).
	From the edit_rcvformat> prompt, select 1 (1. show

5	current settings) from the menu.
6	A list of the setting items is displayed. If this list contains MIME_STRUCTURE = off, this problem does not occur. If this list contains MIME_STRUCTURE = on, you must change the settings shown in the following steps.
7	From the edit_rcvformat> prompt, select 4 (4. configure MIME structure information file (mime_structure)).
8	From the New value (MIME_STRUCTURE) -> prompt, enter off.
9	Respond to the Do you want to apply the changes? (Yes/No) prompt with Yes.
10	From the edit_rcvformat> prompt, enter 99.
11	From the edit_format> prompt, enter 99.
12	From the smtpmng> prompt, enter 99.
13	When you are using a version earlier than 06-02, respond to the Do you want to apply the changes? (Yes/No) prompt with Yes. When you are using the version 06-50, respond to the Do you want to create a configuration file? (Yes/No) prompt with Yes.
14	Start the Mail - SMTP service.

After you change the settings as shown above, the POP3/IMAP4 client cannot reference the Reply-To, Received and other attributes that exist in email but are not handled by the GroupmaxMail system.

Also note that if you retrieve divided email from the Groupmax Mail Server by using an Internet client (POP3/IMAP4) that can assemble parts into an email, the Internet client does not assemble them. The text in the email in the second and following parts becomes corrupted.

## Revision history

- July 14, 2003: This page is revamped.

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