

# Sistema de Aférese AmiCORE

Notas da versão do software

SW v. 2.1

**REF** 6R8800

**MD**



# Notas da versão 2.1 do software AmiCORE

## Introdução

Este documento fornece notas da versão 2.1 do Sistema de Aférese AmiCORE. Ele fornece conteúdo complementar para o Manual do Operador do Sistema de Aférese AmiCORE e ao Guia do Administrador que são específicos para esta versão de software.

## Visão geral desta versão

A versão 2.1.77.701 do Sistema de Aférese AmiCORE incluiu os seguintes recursos:

- Melhorias de desempenho no ciclo de reinjeção final para otimizar o tempo do procedimento.
- Opção de perfusão de solução salina adicional durante o ciclo final de reinjeção.
- Adição de uma verificação secundária para a colocação adequada das linhas de coleta e retorno após a retomada de um alerta de 2105.
- Adição de um segundo conjunto de configurações padrão para as principais configurações do procedimento.
- Suporte aos novos códigos de kit descartáveis 7R AmiCORE.
- Adição de idiomas norueguês e português do Brasil.
- Capacidade de acessar o estimador de doação sem iniciar um novo procedimento.
- Atualizações ao temporizador de desinfecção para incluir fases de retardo, desinfecção e secagem.
- Otimizações para reduzir a variação do rendimento de plaquetas devido a interrupções e alterações na taxa de fluxo do doador.
- Otimizações para o algoritmo de controle de fluxo inteligente.
- Opção de aplicar um rótulo à bolsa de plasma concomitante após a punção venosa sem disparar um alerta de balança.
- Notificações mais rápidas para condições de bloqueio da linha da centrífuga.

- Melhorias contínuas para reduzir os alertas e condições de desequilíbrio da bolsa, reduzir o tempo de preparação e procedimento e otimizar a usabilidade do operador.
- Adição de fusos horários para a Austrália e a Nova Zelândia.
- Metodologia de autenticação atualizada para a conexão com um sistema de gerenciamento de dados.
- Melhorias nos cálculos residuais do plasma, inclusive no caso de um cenário de falta de energia.

### **Anomalias**

Entre em contato com seu representante local da Fresenius Kabi para obter uma lista de anomalias associadas a esta versão.

### **Lista de Materiais de Segurança Cibernética (CBOM)**

A CBOM para a versão 2.1 do Sistema de Aférese AmiCORE é descrita pelos seguintes arquivos XML.

A CBOM a seguir é comum às versões 2.1J (2.1.72.673) e 2.1I (2.1.70.670) do software:

```
<?xml version="1.0"?>
<CBOM>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>6.5.0 SP1</Version>
    <Description>Realtime Operating System used in AmiCORE
    MPU</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
      <Vector>USB</Vector>
      <Vector>UI</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>Patch 3336</Version>
    <Description>Byte Pair Encoding</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
      <Vector>USB</Vector>
      <Vector>UI</Vector>
    </ThreatVectors>
  </Item>
</Item>
```

---

```
<Vendor>BlackBerry/QNX</Vendor>
<Name>Neutrino RTOS</Name>
<Version>Patch 3792</Version>
<Description>Applypatch</Description>
<ThreatVectors>
  <Vector>LAN</Vector>
  <Vector>Wi-Fi</Vector>
  <Vector>USB</Vector>
  <Vector>UI</Vector>
</ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4004</Version>
  <Description>TCP Timer</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4703</Version>
  <Description>Kernel and Libc</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4772</Version>
  <Description>Procnto - Microkernel and process manager
</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4880</Version>
  <Description>Kernel Libc</Description>
```

```
<ThreatVectors>
  <Vector>LAN</Vector>
  <Vector>Wi-Fi</Vector>
  <Vector>USB</Vector>
  <Vector>UI</Vector>
</ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Photon microGUI Library</Name>
  <Version>6.5.0</Version>
  <Description>microGUI library for creating UI</Description>
  <ThreatVectors>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>USB stack and Library</Name>
  <Version>6.5.0</Version>
  <Description>Implements USB Protocol. Also supplies class
  drivers to communicate with USB stack</Description>
  <ThreatVectors>
    <Vector>USB</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>GnuPG Project</Vendor>
  <Name>GnuPG</Name>
  <Version>1.4.11</Version>
  <Description>Security utility used for verifying digital
  signatures during software upgrades</Description>
  <ThreatVectors>
    <Vector>USB</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>Expect Project</Vendor>
  <Name>Expect</Name>
  <Version>5.43.0</Version>
  <Description>Scripting language used for configuring network
  interfaces</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>haxx</Vendor>
  <Name>libcurl</Name>
  <Version>7.19.6</Version>
  <Description>client side URL transfer library</Description>
  <ThreatVectors>
```

---

```

        <Vector>LAN</Vector>
        <Vector>Wi-Fi</Vector>
    </ThreatVectors>
</Item>
</CBOM>

```

A CBOM a seguir é comum às versões 2.1H (2.1.63.604), 2.1G (2.1.61.585), 2.1E (2.1.53.552) e 2.1D (2.1.47.541) do software:

```

<?xml version="1.0"?>
<CBOM>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>6.5.0 SP1</Version>
    <Description>Realtime Operating System used in AmiCORE
    MPU</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
      <Vector>USB</Vector>
      <Vector>UI</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>Patch 3336</Version>
    <Description>Byte Pair Encoding</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
      <Vector>USB</Vector>
      <Vector>UI</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>Patch 3792</Version>
    <Description>Applypatch</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
      <Vector>USB</Vector>
      <Vector>UI</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>Patch 4004</Version>

```

```
<Description>TCP Timer</Description>
<ThreatVectors>
  <Vector>LAN</Vector>
  <Vector>Wi-Fi</Vector>
  <Vector>USB</Vector>
  <Vector>UI</Vector>
</ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4703</Version>
  <Description>Kernel and Libc</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4772</Version>
  <Description>Procnto - Microkernel and process manager
</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Photon microGUI Library</Name>
  <Version>6.5.0</Version>
  <Description>microGUI library for creating UI</Description>
  <ThreatVectors>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>USB stack and Library</Name>
  <Version>6.5.0</Version>
  <Description>Implements USB Protocol. Also supplies class
drivers to communicate with USB stack</Description>
  <ThreatVectors>
    <Vector>USB</Vector>
  </ThreatVectors>
</Item>
<Item>
```



---

```

    <Vendor>GnuPG Project</Vendor>
    <Name>GnuPG</Name>
    <Version>1.4.11</Version>
    <Description>Security utility used for verifying digital
    signatures during software upgrades</Description>
    <ThreatVectors>
      <Vector>USB</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>Expect Project</Vendor>
    <Name>Expect</Name>
    <Version>5.43.0</Version>
    <Description>Scripting language used for configuring network
    interfaces</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
    </ThreatVectors>
  </Item>
  <Item>
    <Vendor>haxx</Vendor>
    <Name>libcurl</Name>
    <Version>7.19.6</Version>
    <Description>client side URL transfer library</Description>
    <ThreatVectors>
      <Vector>LAN</Vector>
      <Vector>Wi-Fi</Vector>
    </ThreatVectors>
  </Item>
</CBOM>

```

O formato da CBOM é definido pelo seguinte XSD:

```

<xs:schema attributeFormDefault="unqualified"
elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/
XMLSchema">
  <xs:element name="CBOM">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Item" maxOccurs="unbounded" minOccurs="1">
          <xs:complexType>
            <xs:sequence>
              <xs:element type="xs:string" name="Vendor"/>
              <xs:element type="xs:string" name="Name"/>
              <xs:element type="xs:string" name="Version"/>
              <xs:element type="xs:string" name="Description"/>
              <xs:element name="ThreatVectors">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element type="xs:string" name="Vector"
maxOccurs="unbounded" minOccurs="1"/>

```

```
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

A CBOM a seguir aplica-se à versão 2.1K do software (2.1.77.701):

```
<xs:schema attributeFormDefault="unqualified"
elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name="CBOM">
<xs:complexType>
<xs:sequence>
<xs:element name="Item" maxOccurs="unbounded" minOccurs="1">
<xs:complexType>
<xs:sequence>
<xs:element type="xs:string" name="Vendor"/>
<xs:element type="xs:string" name="Name"/>
<xs:element type="xs:string" name="Version"/>
<xs:element type="xs:string" name="Description"/>
<xs:element name="ThreatVectors">
<xs:complexType>
<xs:sequence>
<xs:element type="xs:string" name="Vector"
maxOccurs="unbounded" minOccurs="1"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

### **CBOM XML para AmiCORE**

```
<?xml version="1.0"?>
<CBOM>
  <Item>
    <Vendor>BlackBerry/QNX</Vendor>
    <Name>Neutrino RTOS</Name>
    <Version>6.5.0 SP1</Version>
    <Description>Realtime Operating System used in AmiCORE
    MPU</Description>
    <ThreatVectors>
```

---

```
<Vector>LAN</Vector>
<Vector>Wi-Fi</Vector>
<Vector>USB</Vector>
<Vector>UI</Vector>
</ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 3336</Version>
  <Description>Byte Pair Encoding</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 3792</Version>
  <Description>Applypatch</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4004</Version>
  <Description>TCP Timer</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4703</Version>
  <Description>Kernel and Libc</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
```

```
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Neutrino RTOS</Name>
  <Version>Patch 4772</Version>
  <Description>Procnto - Microkernel and process manager
</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
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  <Name>Neutrino RTOS</Name>
  <Version>Patch 4880</Version>
  <Description>Kernel Libc</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
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  <Name>Neutrino RTOS</Name>
  <Version>Patch 4924</Version>
  <Description>Libimg Patch</Description>
  <ThreatVectors>
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    <Vector>Wi-Fi</Vector>
    <Vector>USB</Vector>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>Photon microGUI Library</Name>
  <Version>6.5.0</Version>
  <Description>microGUI library for creating UI</Description>
  <ThreatVectors>
    <Vector>UI</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>BlackBerry/QNX</Vendor>
  <Name>USB stack and Library</Name>
  <Version>6.5.0</Version>
  <Description>Implements USB Protocol. Also supplies class
drivers to communicate with USB stack</Description>
```

---

```
<ThreatVectors>
  <Vector>USB</Vector>
</ThreatVectors>
</Item>
<Item>
  <Vendor>GnuPG Project</Vendor>
  <Name>GnuPG</Name>
  <Version>1.4.11</Version>
  <Description>Security utility used for verifying digital
  signatures during software upgrades</Description>
  <ThreatVectors>
    <Vector>USB</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>Expect Project</Vendor>
  <Name>Expect</Name>
  <Version>5.43.0</Version>
  <Description>Scripting language used for configuring network
  interfaces</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
  </ThreatVectors>
</Item>
<Item>
  <Vendor>haxx</Vendor>
  <Name>libcurl</Name>
  <Version>7.64.0</Version>
  <Description>client side URL transfer library</Description>
  <ThreatVectors>
    <Vector>LAN</Vector>
    <Vector>Wi-Fi</Vector>
  </ThreatVectors>
</Item>
</CBOM>
```

Esta página foi deixada em branco intencionalmente.





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[www.fresenius-kabi.com](http://www.fresenius-kabi.com)



**Plexus Manufacturing Sdn. Bhd.\***  
Plot 87, Lebuh raya Kampung Jawa  
11900 Bayan Lepas  
Penang, Malaysia  
Feito em Malásia



**Fresenius HemoCare GmbH\***  
Gruener Weg 10  
61169 Friedberg  
Germany  
Feito em Alemanha

\*Consulte o rótulo do instrumento quanto ao local de fabricação de cada dispositivo.

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