

## **Learnings from the pilot phase and final deployment Bronze Service Provider (BSP) Package Components**

As a result of the pilot phase, WISEKey has defined and tested a version of the WEB RAO (Bronze Package) which is ready for implementation. Pilot phase (July 2000 - July 2001) for EC-DC global PKI deployment included two main periods.

a) July 2000 – December 2000 period was devoted for conducting the following tasks:

- Identifying potential Registration Authorities in Developing Countries,
- Training of about 50 operators in Geneva during the WISEWorld2000 Conference in November 2000, and
- Testing software system for Registration Authority in 10 selected Developing Country entities.

This first period involved 250 entities from Developing Countries with following sector distribution: Government 19 percent; Chamber of Commerce 33 percent; Export Promotion bodies 12 percent and IT companies 36 percent.

b) Second period of the pilot phase (January 2001 – July 2001) centred on drawing the lessons of test implementation and, consequently, on developing a robust and user-friendly technical solution for such a dispersed and wide-ranging global PKI deployment. The experience of the pilot phase identified the following fundamental needs:

- The legal framework defined by the WISEKey common Global Root CPS and the Ecommerce PKI CPS requires the integration of an independent audit and the training of the Registration Officers in the Bronze Service Provider offering.
- It is essential to minimise the problems arising from installation of the system due to lack of standardisation in local configurations and corresponding hardware. This would also allow the reduction of the global support maintenance costs. *Based on these considerations, it is strongly recommended to limit the offering to Full BSP Package.*
- The changes in relationships with WISEKey partners needs to be taken into consideration for the modifications to the Bronze Service Package. This has implications for licensing, support, maintenance and cost.

- The additional VPN and the Anti-Virus Software is not necessary as its functionality is integrated now into the new WebRAO implementation. This makes the system less complex and reduces the points of failure.
- The new implementation now integrates besides Rainbow token also Datakey and Gemplus smart cards without changing anything on the installation. This gives more flexibility to the customer.

**A) Description of final deployment Bronze Service Provider (BSP) Package Components**

	<b>PILOT BSP Package</b>	<b>Final Deployment BSP Package</b>
<b><u>1. Components</u></b>		
<b>1.1. Hardware</b>	<ul style="list-style-type: none"> <li>- Datakey smartcard reader</li> <li>- Datakey smartcard</li> </ul>	<ul style="list-style-type: none"> <li>- PC</li> <li>- Intel Celeron™ 766MHz</li> <li>- RAM: 128 MB</li> <li>- HDD: 20GB</li> <li>- CD-ROM 24X</li> <li>- Graphic Card</li> <li>- Serial, USB 2x</li> <li>- LAN 10/100</li> <li>- Modem: 56K</li> <li>- Keyboard, Mouse</li> <li>- Datakey smartcard reader</li> <li>- Datakey smartcard</li> <li>- USB extension cable</li> <li>- USB smart card Reader</li> </ul>
<b>1.2. Software</b>	<ul style="list-style-type: none"> <li>- Bronze Installation Program</li> <li>- Rainbow Drivers</li> <li>- WebRAO Software</li> <li>- CeloCom Secure VPN Client (Incl. dialer)</li> </ul>	<ul style="list-style-type: none"> <li>- Bronze Installation Program</li> <li>- Rainbow/Gemplus Drivers</li> <li>- WebRAO Software</li> <li>- Windows 2000 Professional</li> <li>- IE 5.5 + High Encryption Pack</li> <li>- Acrobat Reader</li> </ul> <p>(Subject to review of available licenses and export restrictions)</p>

<b>1.3. Certificates</b>	<ul style="list-style-type: none"> <li>- 50 standard certificates (without smart card or token)</li> </ul>	<ul style="list-style-type: none"> <li>- 300 standard certificates (without smart card or token)</li> </ul>
<b>1.4. Documentation (electronic format)</b>	<ul style="list-style-type: none"> <li>- WISEKey Common Global Root CPS</li> <li>- E-Commerce PKI CPS</li> <li>- BSP operating procedures and user Guide</li> <li>- VPN configuration guide</li> </ul>	<ul style="list-style-type: none"> <li>- WISEKey Common Global Root CPS</li> <li>- E-Commerce PKI CPS</li> <li>- Adopted Certificate Policies</li> <li>- BSP Installation Guide</li> <li>- BSP Administrator Guide</li> <li>- End User Agreement</li> <li>- Relying Party Agreement</li> <li>- Certificate Application Form</li> <li>- Certificate Application Guide</li> </ul>

<b><u>2. Services</u></b>	<b>PILOT BSP Package</b>	<b>Final Deployment BSP Package</b>
<b>2.1 Support</b>	none	E-mail support
<b>2.2. Training</b>	none	One day training in Geneva for a maximum of 2 people (travel and accommodation costs not included – minimum IT expertise is required of the people to participate in training)
<b>2.3. Audit</b>	none	Audit of RA operations and facilities (travel and accommodation costs not included)

<b>2.4. Upgrades</b>	none	Web RA system upgrades whenever required
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<b><u>3. Requirements to be implemented by the Customer</u></b>	<b>PILOT BSP Package</b>	<b>Final Deployment BSP Package</b>
<b>3.1. Hardware</b>	<ul style="list-style-type: none"> <li>- Desktop Computer</li> <li>- Intel Pentium 300 MHZ</li> <li>- 64 MB RAM</li> <li>- 1 GB of free hard disk space</li> <li>- CD ROM 24 X</li> <li>- SVGA adapter and screen</li> <li>- 56 kbps modem</li> <li>- USB port supporting rainbow tokens</li> <li>- Serial port for smart card reader</li> </ul>	None
<b>3.2. Software</b>	<ul style="list-style-type: none"> <li>- Microsoft Windows NT4 sp5</li> <li>- Anti virus software internationally recognised</li> </ul>	None
<b>3.3. Connectivity</b>	Internet connection via LAN or Modem	

**B) Cost description:**

<b>PILOT BSP Package</b>	<b>POST PILOT Full BSP Package (includes Basic BSP Package)</b>
Prepayment of 50 certificates USD 1250	Free of charge pre-configured and tested Registration Authority System
BSP certificate USD 200	Annual subscription fee is USD 7500 including the number of those certificates corresponding to this value (e.g. 300 x first year subscription fees or 170 full three year subscription for High Trust Standard Certificate or any combination thereof).
<b>Total: USD 1450</b>	<b>Total: USD 7500</b>