

# Using Data Sensitivity To Control Access

## Solaris Trusted Extensions

**Mark Thacker**  
**Product Manager**  
**Sun Microsystems, Inc.**

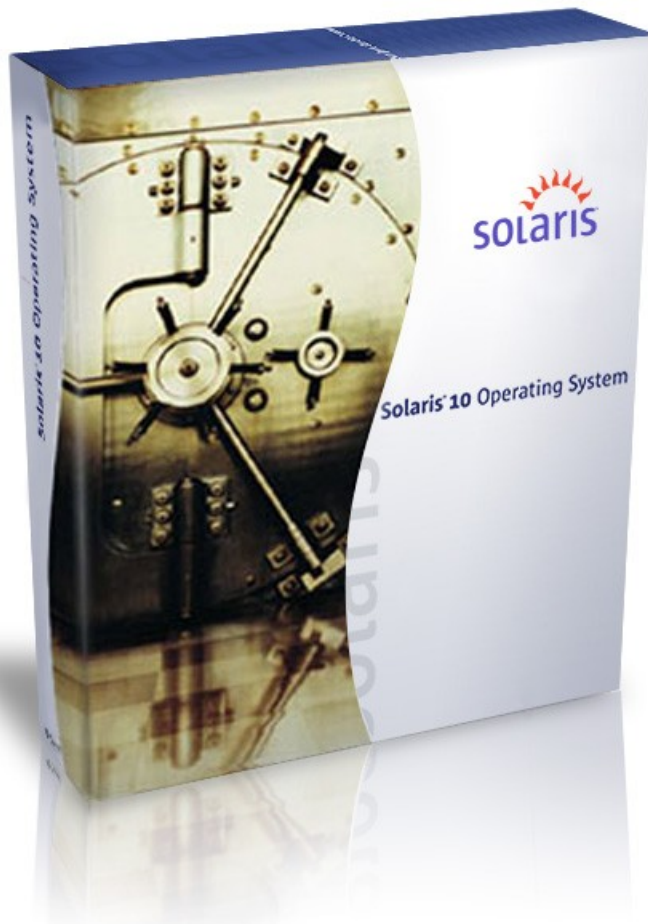
# What is Solaris Trusted Extensions?

- Labeled Security for Solaris 10
- An integrated feature for Solaris 10 11/06
- Mandatory Access Control based on labels

## **Benefits :**

- Isolate data based on it's sensitivity
- Regulate network data flow more easily
- Comply with data privacy legislation more easily

# Trusted Extensions



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Adds labeled security to Solaris 10

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Multi-level networking, printing

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Multi-level Interfaces

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Leverages User & Process RM

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Uses Containers

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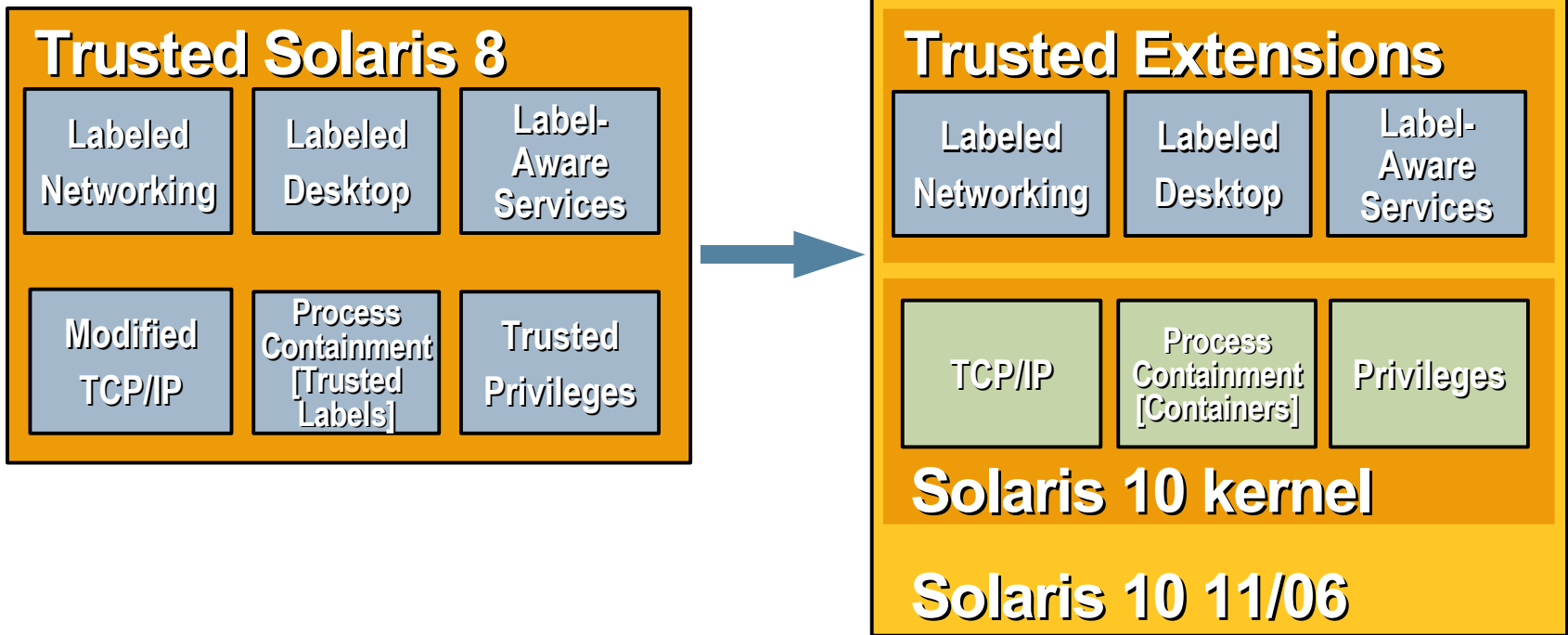
Runs all Solaris applications

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High level of certification

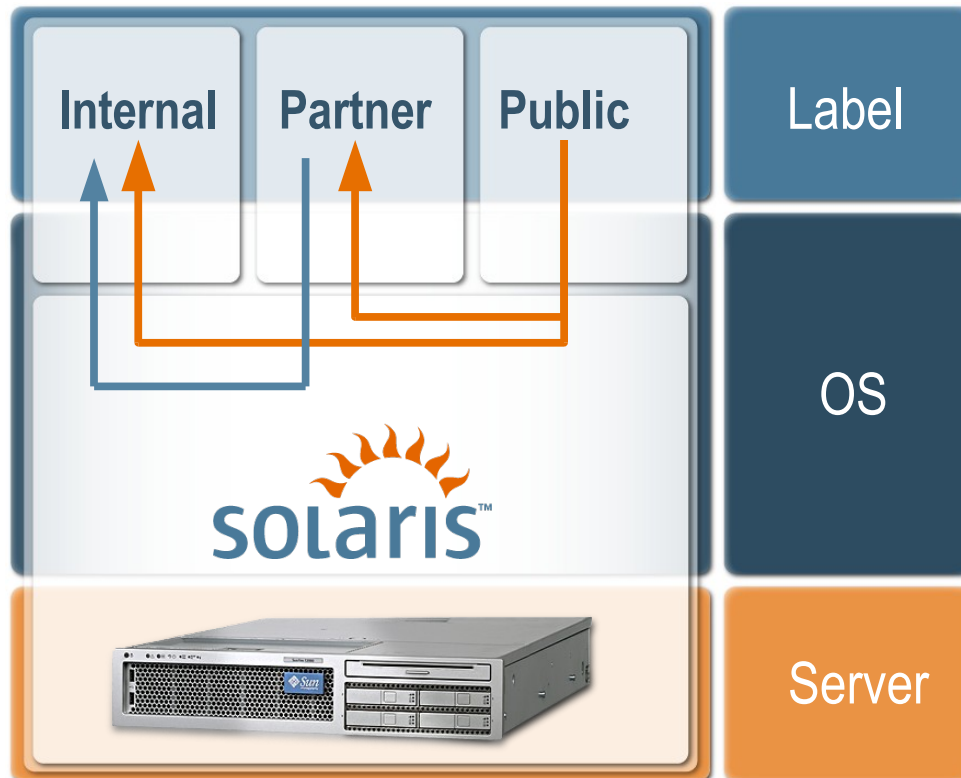
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# Trusted Extensions Architecture



# MAC, Labels, Containers

- Labels have relationships; Containers are labeled
- Mandatory Access Control enforced in kernel
- Patented method for secure file access



# Controlling The Flow of Data

The image shows a StarOffice 7 window titled "Trust No One.sxw - StarOffice 7" with a classification bar at the top that reads "CONFIDENTIAL : RESTRICTED". The document content includes the text "This is some text in a StarOffice Writer Document that is classified Confidential: Restricted".

A "Trusted Path" dialog box is open, titled "Trusted Path" and "Selection Manager". It displays a warning: "Transfer not authorised. You are not authorised to downgrade this information".

Original Information	New Information
<b>CONFIDENTIAL : RESTRICTED</b>	<b>CONFIDENTIAL : INTERNAL USE ONLY</b>
Type: UTF8_STRING	Type: UTF8_STRING (93 bytes)
Owner: sb [redacted]	Owner: sb [redacted]

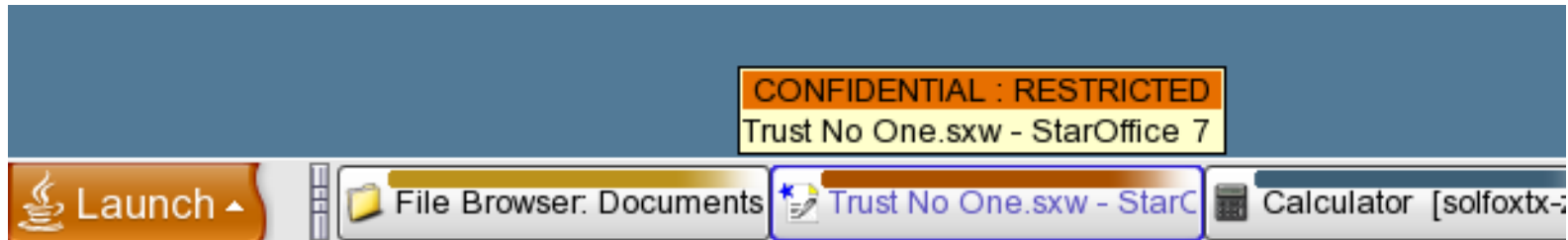
Below the comparison, the "Selection" is shown as a text box containing the original document text: "This is some text in a StarOffice Writer Document that is classified Confidential: Restricted".

# Trusted Java Desktop System Details

## Workplace switcher



## Task switcher

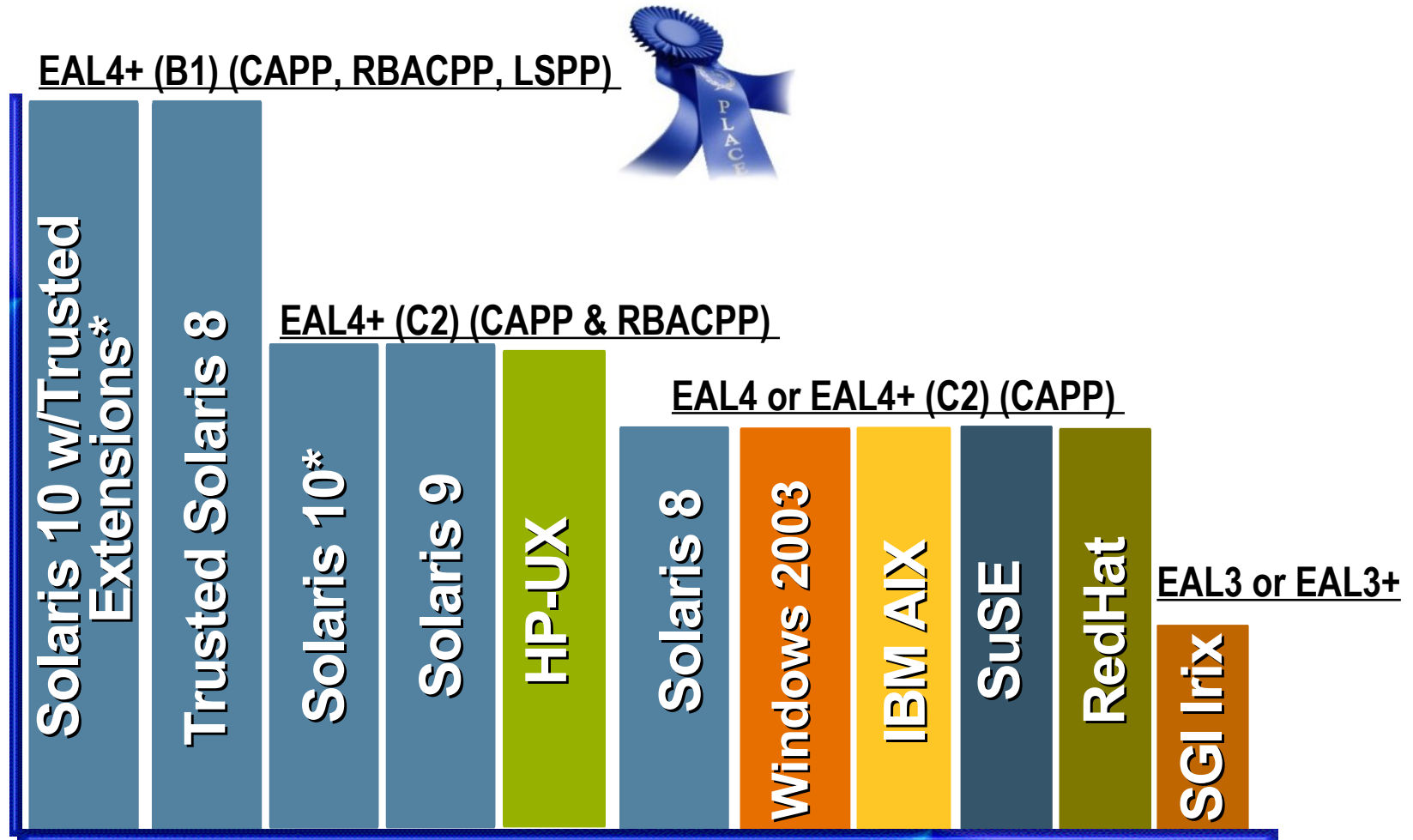


## Trusted stripe and Trusted Path menu



# Independent Validation

## 3<sup>rd</sup> Party Certifications



Based on data from <http://www.commoncriteriaportal.org/>

\* Solaris 10 3/05 and 11/06 are currently in evaluation

# Trusted Extensions vs Trusted Solaris 8

	Trusted Extensions	Trusted Solaris 8
Name Service	Files, LDAP	Files, NIS+
Encoding File	-same-	-same-
Network Labels	CIPSO	CIPSO, TSOL, TSIX
File Systems	Any	UFS
Backups	Any	Tar & CPIO
Flexible Labels	Yes	Strict
Label API	Yes	Yes
Integrated w/OS	Yes	Separate
License Fee	Free – part of Solaris	\$1K - \$90K

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**Mark.Thacker@sun.com**