### **CT for Binary Codes**

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# Changes since IETF91(1)

- Motivation
  - Add a use case
    - This mechanism can also show some advantages in the scenarios where the signer does not realize that their k eys have been compromised. If their update system req uires using a CT log they could find out about their com promise.

# Changes since IETF91(2)

#### • Extend the software entry type.

enum { x509\_entry(0), precert\_entry(1), BIN\_entry(TBD1), (65535) } LogEntryType; enum { binary(TBD3), binary\_digest(TBD4) } Signed\_Type;

```
struct {
  LogEntryType entry_type;
select (entry_type) {
    case x509_entry: X509ChainEntry;
    case precert_entry: PrecertChainEntry;
    case BIN_entry:BIN_Chain_Entry
    } entry;
} LogEntry;
opaque BINARY<1..2^24-1>;
struct {
    Signed_Type signed_type;
    BINARY signed_software;
    ASN.1Cert certificate_chain<0..2^24-1>;
} BIN_Chain_Entry;
```

# Changes since IETF91(3)

- The software SHOULD encapsulated and signe d following the ways specified in CMS[RFC565 2]. If signed\_type is TBD3, the software is enc apsulated in this field. If signed\_type is TBD4, t he SHA-256 digest of software is encapsulated in this field.
- "certificate\_chain"
  - If the information chain is provided in the signed\_s oftware field, this field is set to empty.

## Unaddressed issue

• Still not specify the information besides the so ftware/digest which should be signed.

– Vendor name

- Software name and version number
- Architecture/Platform/Distribution
- Data and time when the signature is generated
  Any more?
- Do we need to support PGP?

### Thanks