1394 PWG OUI Usage Proposal

Overview:

The 1394 PWG identified a requirement to acquire a 24 bit Organizational Unique Identifier (OUI) from the IEEE Registration Authority (RA). This value is required to associate entries in a 1394 node's Configuration ROM to the 1394 PWG Imaging Profile Document.

The command set being defined for use with the SBP-2 layer is identified by the Command_Set_Spec_ID field in the Unit Directory of a node's Configuration ROM. There are also other places in the Configuration ROM which require Sub-ID values. Sub-Ids are 24 bit values which are used in conjunction with the OUI.

The 1394 PWG has acquired the OUI from the IEEE RA. This proposal explains the usage of the 24 bit OUI value by the 1394 PWG.

Terminology

Assigned - 24 bit Sub-ID value that has been defined for a specified purpose.
Reserved - 24 bit Sub-ID value that has not been defined for any purpose.
Public - 24 bit Sub-ID value which will be disclosed in the PWG Usage List
Private - 24 bit Sub-ID value which will not be disclosed in the PWG Usage List

Background:

1394 nodes contain a structured configuration ROM with entries organized as an 8 bit key and 24 bit value. The 1394 PWG Imaging Profile defines a communication model comprised of a transport command set that is used with an SBP-2 layer.

The command set must be identified by an entry in the Unit Directory of the Configuration ROM on the target device using the Command_Set_Spec_ID field.

At least one additional Sub-ID, a 24 bit value, the Command_Set identifier, which in conjunction with the Command_Set_Spec_ID indicates a unique specification that describes the unit architecture of the target node.

Usage Guidelines

1. The 1394 PWG will use the acquired OUI in order to define additional 24 bit Sub-ID values as needed for use within the 1394 PWG Imaging Profile or related documents. These will be considered PUBLIC ASSIGNED numbers after the specification is approved by the PWG.
2. The PWG will reserve a major portion of the Secondary ID space for use by future PWG efforts. These will be considered PUBLIC RESERVED numbers.
3. Sub-ID number ranges will be assigned to the individual participants. These will be considered PRIVATE RESERVED numbers. Each participant will receive 4096 sub-Ids.
4. Any PRIVATE Sub-ID can be changed to PUBLIC status. The listed number must be associated with well documented publicly available specifications.

5. PUBLIC sub-ID related requests can be addressed to the 1394 PWG mail list P1394@pwg.org.
6. PRIVATE sub-ID related requests can be addressed to the 1394 PWG OUI Administrator P1394-OUI-Admin@pwg.org.
7. Any PRIVATE Sub-ID can be changed to PUBLIC status. The listed number must be associated with well documented publicly available specifications.

   NOTE: A vendor who does not wish to publish a document that defines the usage of a sub-ID should create the definition using their own company OUI.