

Asset Management Interface

Characteristics:

- Multiple protocols
- Standalone interface
- Interoperability

Digital protocols are being considered by many end users due to their capability of handling the field devices built-in diagnostics, this is normally addressed as Asset Management and usually refers to intelligent field devices using HART, PROFIBUS-PA and Foundation Fieldbus protocols.

After installing and starting the control systems, the user is totally tied to the available functions of this specific control system to really perform maintenance using such built-in diagnostics information. However, in certain cases the availability is not sufficient to convince its usage and therefore the real beauty of using digital communication is not explored in all aspects.

Due to the nature of so different digital protocols, the connection to the field devices is also not usually homogeneous or similar and therefore the final solution for asset management is not user friendly or doesn't give to the customer the idea of a complete management package.

For example, due to HART characteristics and products availability, it is still very common to use parallel systems (multiplexers) to gather the HART communication from field devices, as in many applications only 4-20mA is used.

SMAR System302 can also be built in a proper structure to address asset management in a standalone mode to extract the best from digital installations.

SMAR DFI302 is the solution for hardware access of different protocols and can be considered as an option to start using new protocols in the plant to experience in a smaller scenario and afterwards deciding to implement in the whole plant.

SMAR provides the complete package for maintenance including software, hardware and even the field devices.

Software layer comprises the configuration tools and also the maintenance task with a specific tool called AssetView. AssetView supports multiple protocols and is able to combine several functions in one common structure:

- Calibration
- Configuration
- Monitoring
- Data storage
- Diagnostics
- Predictive maintenance
- Notifications by e-mail
- Knowledge base
- Audit trail
- FDT/DTM support

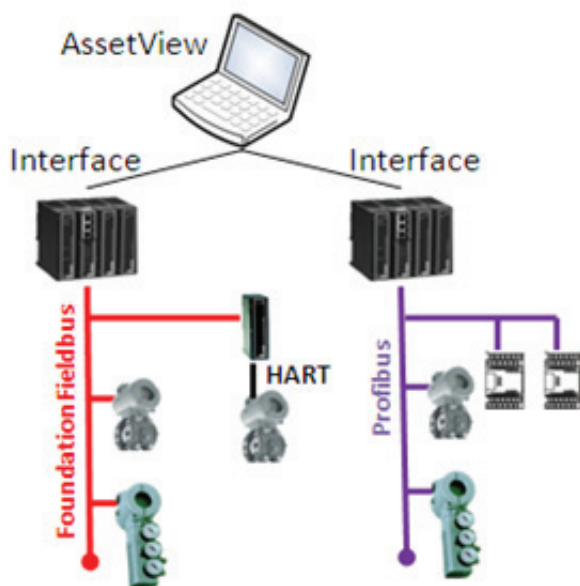
AssetView is able to manage a complete plant maintenance functions based on client/server architecture with web user interface. However for this specific scenario where standalone DFI302 will be used just to gather diagnostics data from few field devices in a local environment, the AssetView can simply run under on a laptop or simple workstation providing the very same information level as in a large scale application.

Foundation Fieldbus and PROFIBUS-PA field devices are easily connected to AssetView via DFI302 directly using the appropriated CPU's based on each protocol. The HART communication in this case will require an extra interface called HI302 which is able to extract the digital communication from each 4-20mA+HART loop hence providing the proper communication to the HART field devices, the HI302 interface is in fact a Foundation Fieldbus compliant device and therefore is tied to the same DFI302 where Foundation Fieldbus equipment are connected.

An extra compatible technology to this application is the FDT/DTM which is totally supported by AssetView. In fact, AssetView is a Field Device Tool (FDT) and SMAR or 3rd party field devices can be connected to it via specific Device Type Manager files (DTM's). This technology allows the system to integrate all mentioned protocols, but also 3rd party HART multiplexers.

Characteristics	SYSTEM302 Availability
Foundation Fieldbus	Yes
Profibus-PA	Yes
HART	Yes
EDDL support	Yes
FDT/DTM support	Yes
OPC support	Yes
Foundation Fieldbus HSE	Yes
Web interface	Yes*

* FDT/DTM technology is not compliant with web environment and therefore a proper interface is used instead.



For additional information please contact us.