

NMIS

National Manufacturing
Institute Scotland

Affordable Intelligent Manufacturing

Dr Shawki Al-Dubaei,
SME Engagement Advisor,
University of Strathclyde, Glasgow
Shawki.Al-Dubaei@strath.ac.uk

PIC: 999974068

nmis.scot



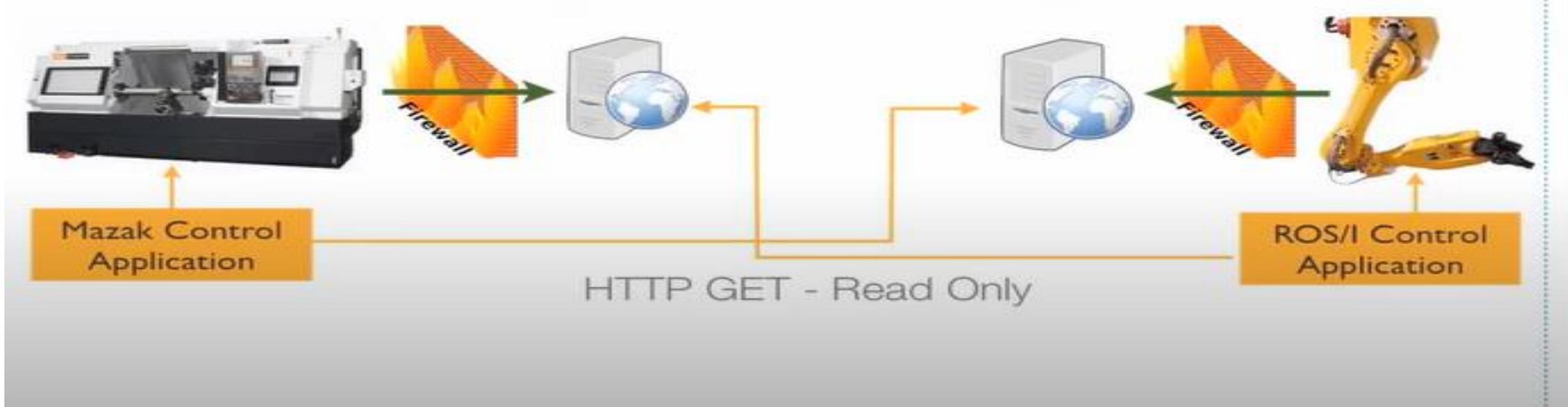
Answering two questions:

- ▶ (1) Can we use the MTConnect standard to improve shop floor communication as a universal manufacturing language?
- ▶ (2) Can the MTConnect standard be a suitable solution for SMEs?
 - **MTConnect standard:** MTConnect© is a registered trademark of AMT- the Association for Manufacturing Technology. It is an XML based communication standard and a common language between machines communications for shop floor that can share information and data from the shop floor in a standard format seamlessly. It should install and activate on a machine to be available to acquire data dictionary.
 - **MTConnect has a fibulas security because it allows just reading the data.**



Secure HTTP Communication

Peer-to-Peer MTConnect Messaging



Many - to - Many



Load Material - Active



Left Conveyor - Active
Right Conveyor - Active



Load Material - Not Ready



Load Material - Active
1:07 / 1:14



Unload Material - Active

