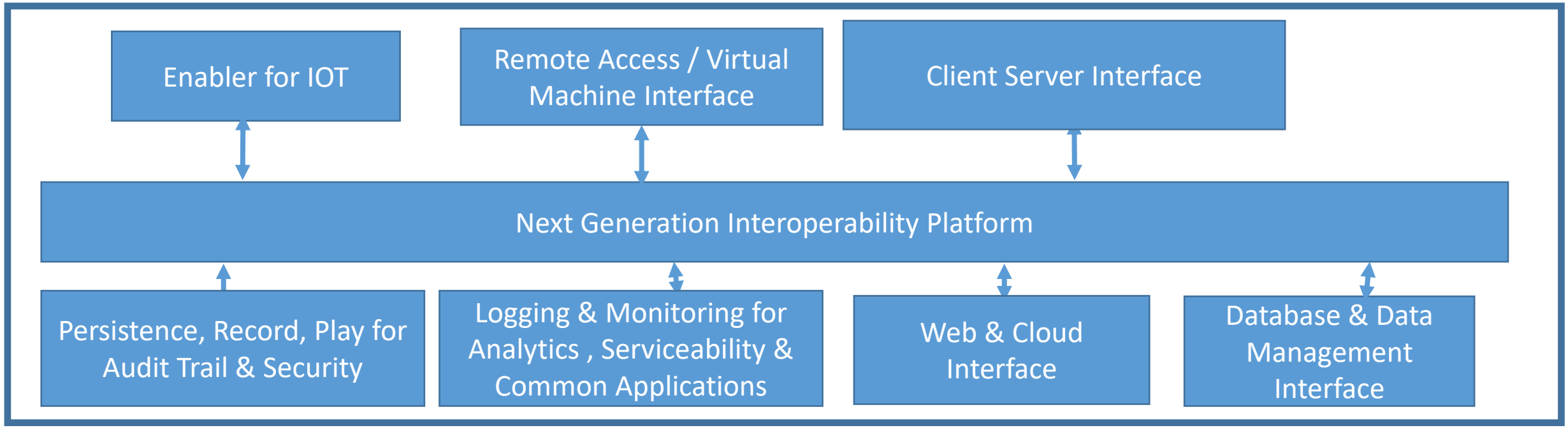
Next Generation Interoperability Communication Platform Objectives



Next Generation Interoperability Communication Platform Common Layer :

- Common layer provides all common modules used across applications and services.
- Some of the common module are
  - - Communication module
  - - Logging module
  - - File-system module

Communication Module

- Provides libraries to be used by applications and services for IPC
- Supports both peer to peer communication and publish subscribe model.
- Supports asynchronous and synchronous communication
- Classes will be available in C++, Java and Java script.
- Publish subscribe will be a broker-less model.
- Data which can be transferred will follow a standard.

Logging Module

- Provides libraries to be used by applications and services for logging
- Classes will be provided for C++, Java and Java script
- Will support different levels of logging (FATAL, ERROR, TRACE, DEBUG, WARNING, INFO etc.)
- Following types of logging will be supported
  - - Rolling file logger
  - - Socket logger

File System Module

- Provides libraries to be used by applications and services for accessing filesystem dependent functions
- This module abstracts the application and service layer from the underlying platform specific filesystem access
- This module will provide interfaces to perform file system operations like creation, deletion and switching of directory, creation, deletion, read and write of files etc.

Expectation for 1 Month Project :

1. Need is to deliver a communication platform library.
2. Deliver a C++ and Java based Communication Library on Windows/Linux/Android/iOS Platforms.
3. It should be a communication library (source code), taking XML type data structure (Identifier, data) and should send & receive the data in chunks (depending upon the packet size configuration). Marshalling will not be required in first prototype. No Bluetooth. Only TCP/IP.