



IR Requirements

Tactical Fire Remote Sensing Advisory Committee

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Requirements Matrix Effort

- Why is a requirements matrix needed?

It aids:

- The fire management community – knowing what tools are available.
- Vendors and researchers – understanding where we have needs (gaps), and what we are currently doing well. Understanding what's needed to do the job. Knowing what information is needed, is key to pushing and utilizing technology in an efficient and effective way.

- Current Status and Work

- The Team
- Significant work done, but still early draft

- The Matrix

- Mission Type
- Desired Products
- Basic Requirements
- End User

The Matrix – Mission Type

- Mission Type
 - Wide Area Fire Detection
 - Initial Attack
 - Large Fire Perimeter Mapping
 - Day-time monitoring portions of large fires
 - Tactical Ground Resource Support
 - Using IR to determine amount of mop-up required
- Desired Outputs
 - Data
 - Products
 - Timeframes (desired / deliverable timeframes)
- Basic Requirements
- End User

The Matrix – Desired Outputs

- Mission Type
- Desired Outputs
 - Data
 - Products
 - Timeframes (desired / deliverable timeframes)
- Basic Requirements
- End User

The Matrix – Basic Requirements

- Mission Type
- Desired Outputs
- Basic Requirements
 - Manned Aircraft
 - Unmanned Aircraft
 - ❖ UAS
 - ❖ Satellite
 - Sensor
 - ❖ On-board Processor
 - ❖ Ground processed
- End User

The Matrix – Basic Requirements

- Mission Type
- Desired Outputs
- Basic Requirements
- End User
 - ❖ IMTs
 - ❖ Duty Officer
 - ❖ Dispatch
 - ❖ AAs
 - ❖ GACCs
 - ❖ NMAC
 - ❖ NICC
 - ❖ PAOs
 - ❖ WO Fire Desk
 - ❖ Analysts
 - ❖ Tactical Ground Resources (line overhead, crews, engines, etc.)
 - ❖ Etc.



The Matrix – Looking Ahead

The intent is to complete the draft matrix and to use it as a key talking point (Rosetta Stone) when conveying needs to all development communities (vendors, researchers, other government agencies).

The document (ideally) should continue to evolve as information needs change and as technology advances.



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