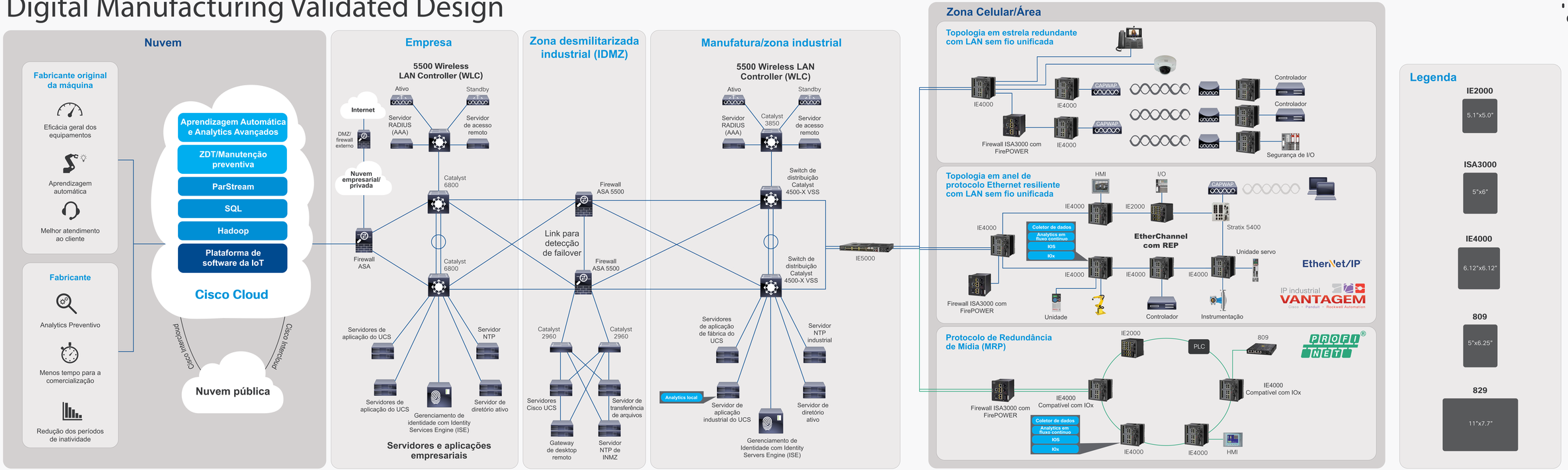Digital Manufacturing Validated Design